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MULTI-CD CONTROL DSP
TUNER CD DECK AMPLIFIER

OWNER'S MANUAL

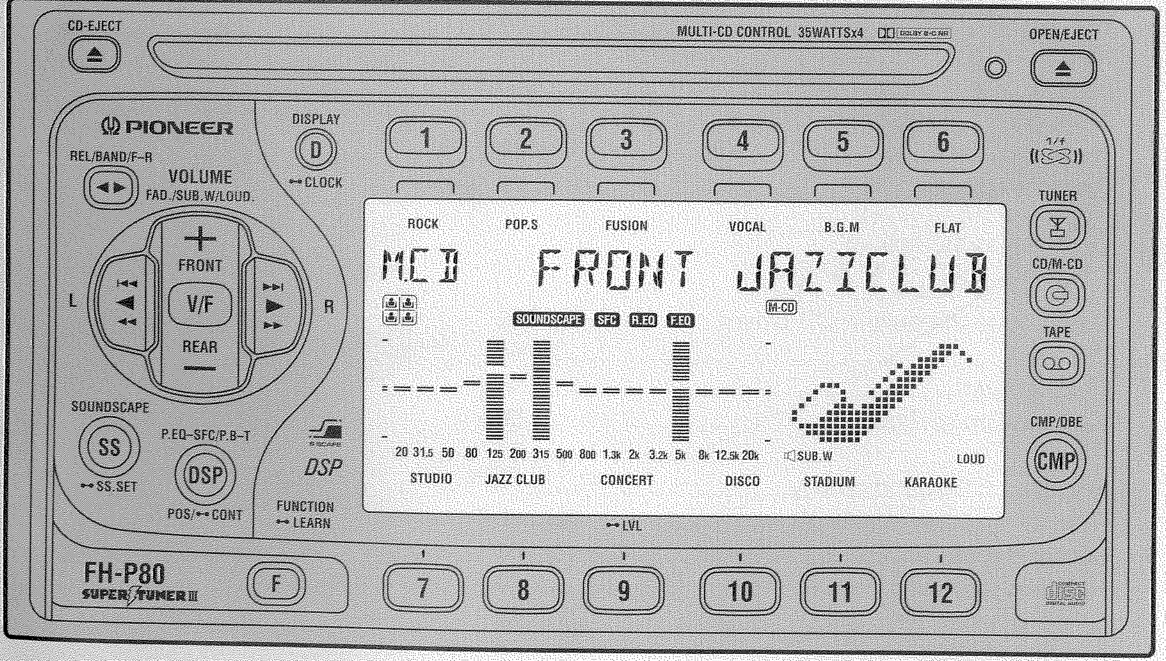
SUPER TUNER III

SPARE PARTS MASTER

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

PIONEER®
The Art of Entertainment

FH-P80


CD-EJECT
MULTI-CD CONTROL 35WATTSx4
OPEN/EJECT
PIONEER
REL/BAND/F-R
VOLUME
FAD./SUB.W/LOUD.
DISPLAY
D
↔CLOCK
1
2
3
4
5
6
TUNER
CD/M-CD
TAPE
CMP/DBE
CMP
FRONT
V/F
REAR
L
R
ROCK
POP.S
FUSION
VOCAL
B.G.M
FLAT
M.CD FRONT JAZZCLUB
SOUNDSCAPE SFC R.EQ F.EQ
M-CD
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
SUB.W
LOUD
STUDIO
JAZZ CLUB
CONCERT
DISCO
STADIUM
KARAOKE
SOUNDSCAPE
SS
↔SS.SET
P.EQ–SFC/P.B–T
DSP
POS/↔CONT
FUNCTION
↔LEARN
↔LVL
FH-P80
SUPER TUNER III
F
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8
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10
11
12

SPARE PARTS MASTER

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- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

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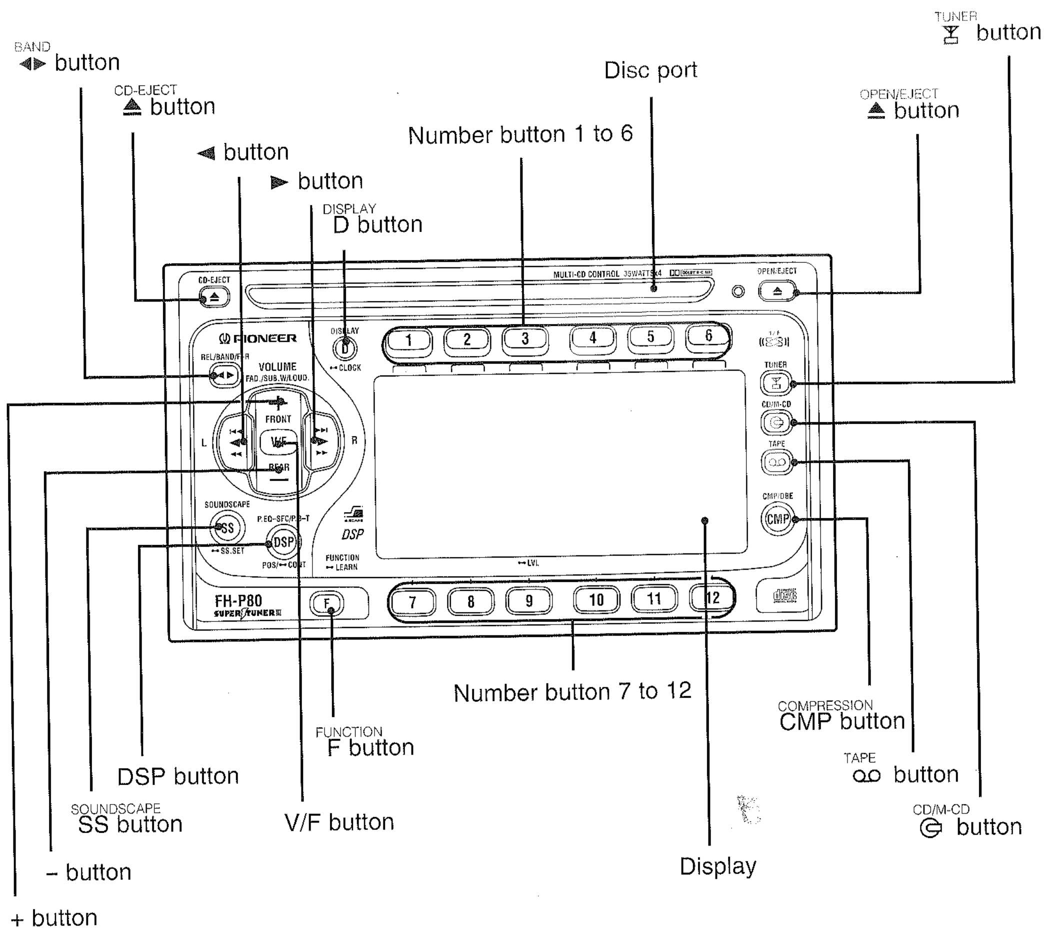
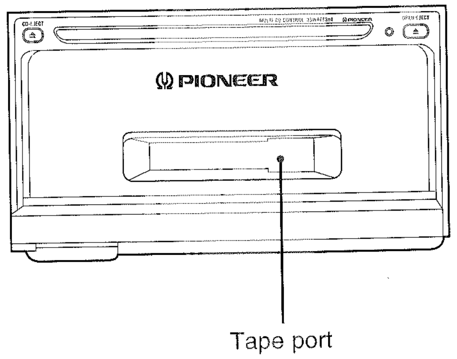
● Listening to the RADIO
● Listening to a CASSETTE TAPE
● Listening to the built-in CD PLAYER
● Listening to the MULTI-CD PLAYER
● Using SOUNDSCAPE
● Using DSP
● OTHER FUNCTIONS
● CONNECTION and INSTALLATION
● APPENDIX

NAMES AND PARTS

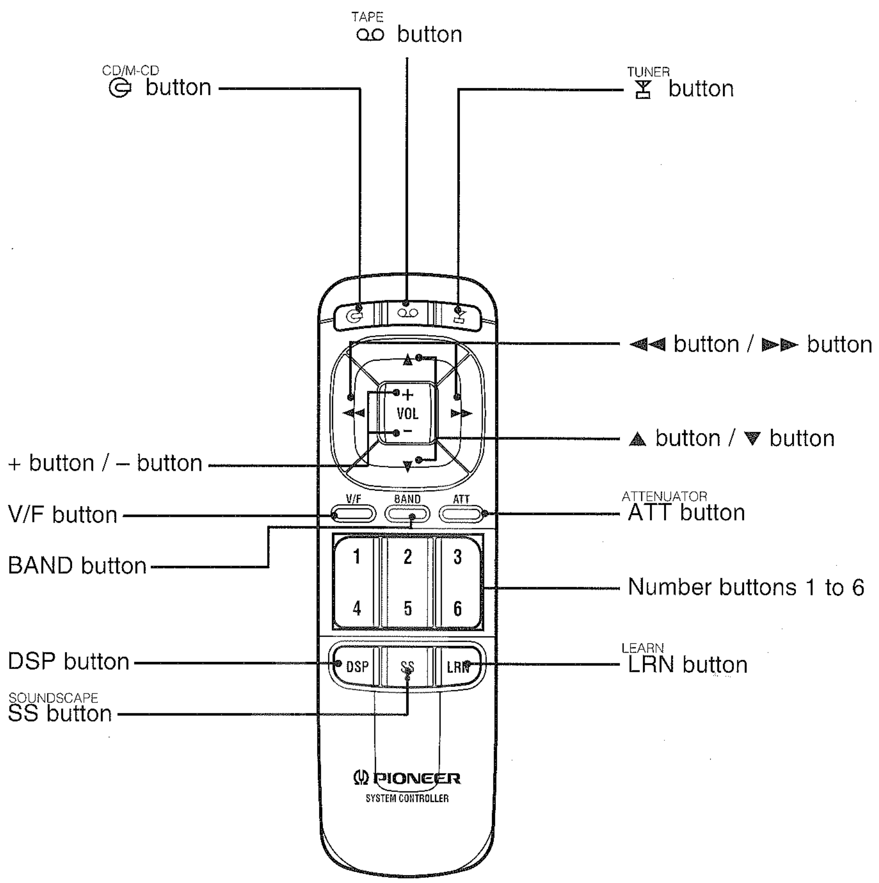
The names of the operating buttons of this unit are as follows:

Main unit


BAND
◀▶ button
CD-EJECT
▲ button
◀ button
▶ button
DISPLAY
D button
Number button 1 to 6
Disc port
OPEN/EJECT
▲ button
TUNER
button
Number button 7 to 12
COMPRESSION
CMP button
TAPE
button
CD/M-CD
button
Display
FUNCTION
F button
DSP button
SOUNDSCAPE
SS button
V/F button
- button
+ button
FH-P80
PIONEER


PIONEER
Tape port

Remote controller


TAPE
button
CD/M-CD
button
TUNER
button
◀◀ button / ▶▶ button
▲ button / ▼ button
+ button / – button
V/F button
ATTENUATOR
ATT button
BAND button
Number buttons 1 to 6
DSP button
LEARN
LRN button
SOUNDSCAPE
SS button
PIONEER
SYSTEM CONTROLLER

PREPARATION AND PRELIMINARY INFORMATION

CAUTION:
USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION:
THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

Symbols

The following symbols are used throughout this manual.

⚠ **CAUTION**
This symbol indicates important information about the safety of this system.

⊘ **Important Note — follow the instructions carefully.**
This symbol indicates action which can cause the equipment to fail if it is wrongly performed.

MEMO This symbol indicates functional and specification-related limitations, notes on operation and techniques for using the unit skillfully.

CHECK ● This symbol indicates items that should be checked before performing the described operation.

OPTION This symbol indicates items which are valid when optional equipment has been connected.

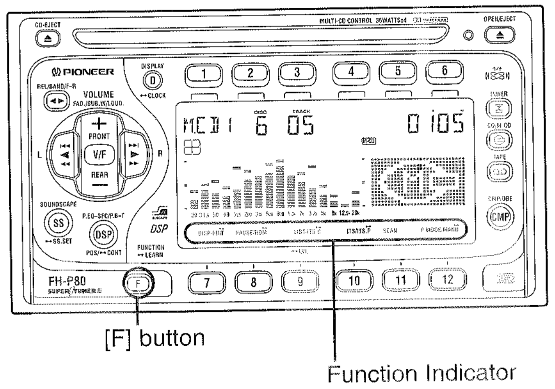
☛ This symbol indicates a page to refer to.
See the indicated reference when necessary.

FUNCTION feature

Each of the number buttons [7] to [12] has two functions when the source is radio (FM1 band only), or 12-disc multi-CD player.
The function which is activated is selected by turning the FUNCTION feature ON/OFF.

Tuning the FUNCTION feature ON/OFF

The FUNCTION feature ON/OFF will be switched each time the [F] button is pressed.
The Function Indicator will light when the feature is ON, and will go out when it is OFF.

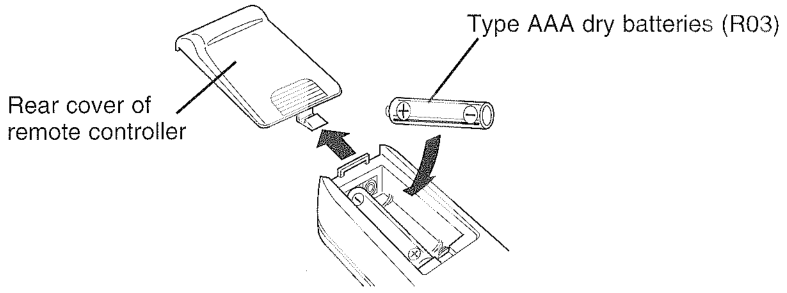


MEMO

- ● The Function Indicator is a guide to using number buttons [7] to [12]. Lit contents differ when the source is radio (FM1 band only), or 12-disc multi-CD player.

Loading batteries in the remote controller

Open the rear cover as shown in the figure and set the batteries inside.

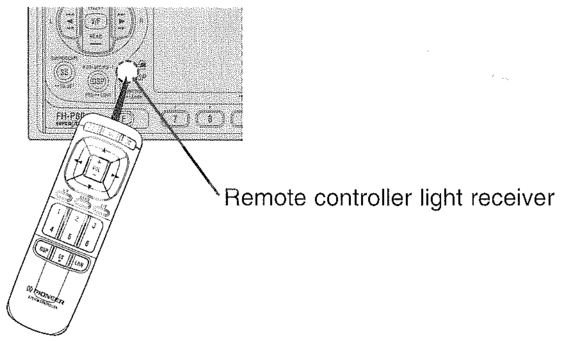


⊘ To prevent leakage or explosion of batteries

- ● Be sure that the batteries are loaded with the positive (+) and negative (–) terminals oriented correctly.
- ● Do not use batteries other than type AAA dry batteries (R03).
- ● Do not mix old and new batteries and do not mix different types of batteries.
- ● Batteries included with the main unit cannot be recharged.
- ● Remove the batteries from the remote controller when it is not to be used for more than a month.
- ● If leakage occurs, completely wipe away all liquid from the battery compartment before replacing with new batteries.

Using the remote controller

The hand-held remote controller is used by aiming it at the remote controller light receiver on the main unit.
Sometimes remote controller operations are not possible when direct sunlight hits the remote controller light receiver.



⊘ To prevent deformation, discoloration and malfunction

- ● Do not place the remote controller in places subject to high temperature or direct sunlight.

⚠ CAUTION

To prevent accidents

- ● It would be extremely dangerous if the remote controller were to fall and lodge underneath the brake pedal when attempting to stop or turn a curve. Always keep the remote controller fastened in the supplied base except when being used.

Adjusting the *AUDIO*

CONTENTS

⑩ **Switching the sound source**

⑫ **Volume adjustment**

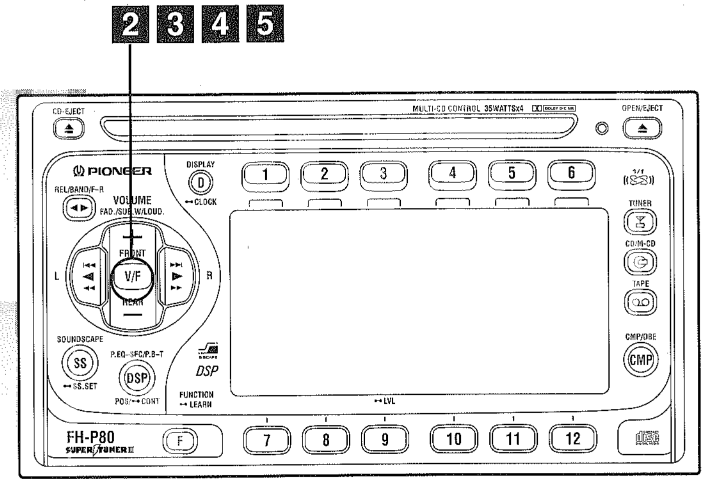
⑬ Attenuator

⑭ **Fader/balance adjustment**

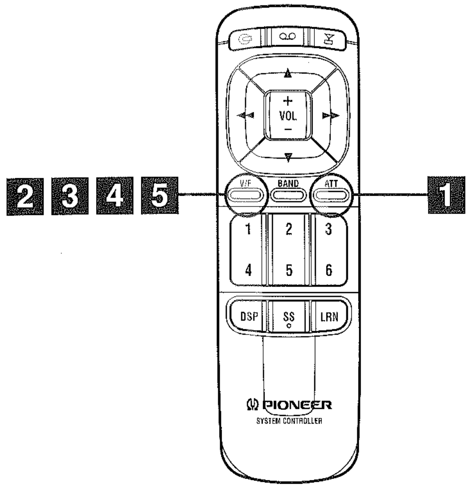
⑯ Subwoofer function/adjustment

⑳ **Loudness function**

㉑ Source level adjuster (SLA)



2
3
4
5
CD-EJECT
OPEN/EJECT
PIONEER
DISPLAY
D
CLOCK
VOLUME
FRONT
V/F
REAR
L
R
1
2
3
4
5
6
TUNER
TAPE
CMP
SOUNDSCAPE
SS
DSP
FUNCTION
LEARN
FH-P80
F
7
8
9
10
11
12



2
3
4
5
1
VOL
V/F
BAND
ATT
1
2
3
4
5
6
DSP
SS
LRN
PIONEER
SYSTEM CONTROLLER

1 Attenuator

This feature allows you to lower the volume at a single touch such as when conversation in the car is hard to hear or when you are stopping at a toll booth.

2 Fader/balance adjustment

This feature allows you to adjust the audio balance of the speakers front and rear and left and right.

OPTION

3 Subwoofer function/adjustment

This feature allows you turn subwoofer output on and off and to adjust the output level.

4 Loudness function

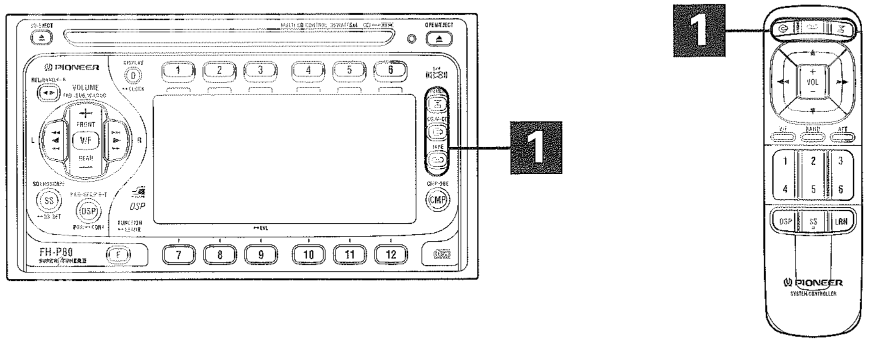
This feature allows you to compensate for apparent lack of low and high frequencies when listening at low volume.

5 Source level adjuster

This feature compensates for differences in audio when switching the sound source.

SWITCHING THE SOUND SOURCE

Switching to the desired sound source.


1
1
1
FH-P80
PIONEER

1 Switching the sound source

■ Press the ⊻ button when switching radio.

The sound source will be switched as follows each time the button is pressed.

→ Radio (FM/AM) ▶ OFF ┐

■ Press the ⊖ button when switching between built-in CD player and multi-CD player.

The sound source will be switched as follows each time the button is pressed.

→ Built-in CD player ▶ Multi-CD player ▶ OFF ┐

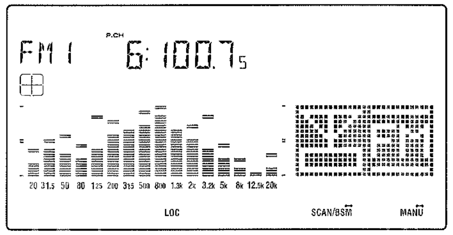
■ Press the oo button when switching between tape deck and AUX.

The sound source will be switched as follows each time the button is pressed.

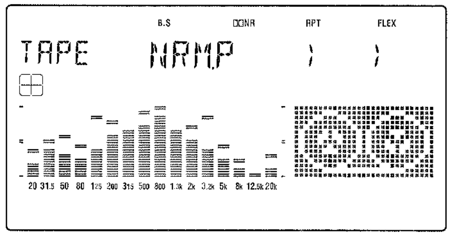
→ Tape deck ▶ AUX (external device) ▶ OFF ┐

You can check that the sound source has been switched by looking at the display.

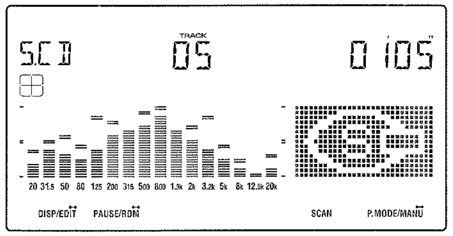
Radio (FM/AM)


FM 1 6: 100.7 5
LOC
SCAN/BSM
MANU

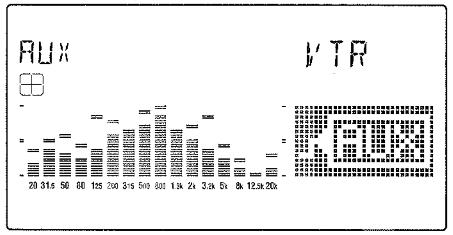
Tape deck


TAPE NRMP
B.S
DDNR
RPT
FLEX

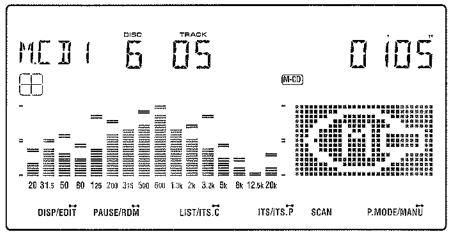
Built-in CD player


SCD 05 0 105
TRACK
DISP/EDIT
PAUSE/RDM
SCAN
P.MODE/MANU

AUX (external device)



Multi-CD player

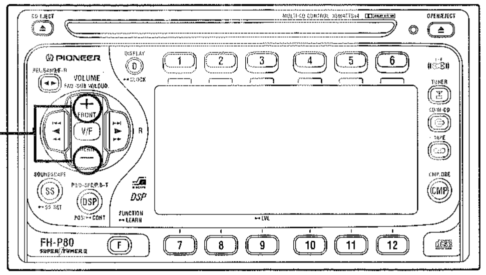

MCD 1 6 05 0 105
DISC
TRACK
DISP/EDIT
PAUSE/RDM
LIST/ITS.C
ITS/ITS.P
SCAN
P.MODE/MANU

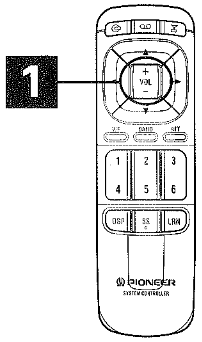
MEMO

- You cannot switch to a sound source that is not connected.
- You cannot switch to the built-in CD player if no disc has been loaded in the built-in CD player.
- You cannot switch to the multi-CD player if no magazine has been loaded in the multi-CD player.
- You cannot switch to the tape deck if no tape has been loaded in the tape deck.
- You cannot switch the sound source to AUX using the remote controller.
- You cannot switch to the AUX source if the AUX source (external device) is not set to ON.
- For details on connecting external devices such as video or DAT decks. (☞ P.141)

VOLUME ADJUSTMENT

Adjusting the volume.





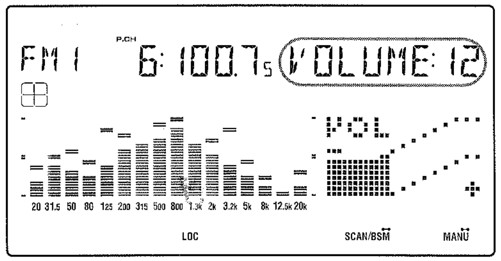
1 Adjusting the volume

■ Press the [+] button to increase the volume.

The volume will increase each time the button is pressed.

■ Press the [–] button to decrease the volume.

The volume will decrease each time the button is pressed.



The volume can be adjusted within the range "00" to "30".

CAUTION

Keep the sound in moderate volume

- Be sure to keep the volume level while driving low enough to hear sounds outside your vehicle.

Caution concerning your car battery depletion

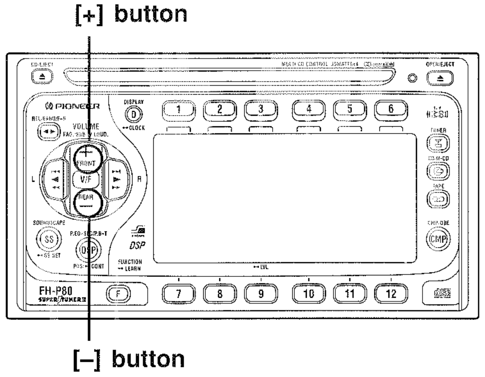
- Do not listen at high volume for long periods of time when your car engine is stopped or idling.

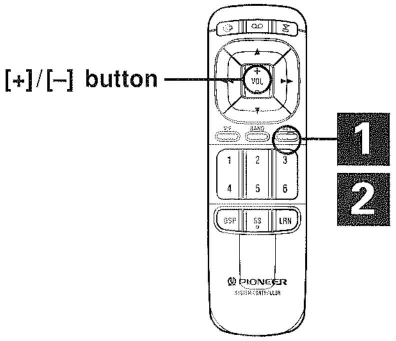
MEMO

- Volume can be adjusted continuously by holding the button down.
- When using this unit in combination with a cellular telephone, a mute function will be activated; "TEL CALL" will be displayed and volume will be set to "0" whenever you place or receive a call. Muting will be automatically cancelled after you have finished using the phone.

ATTENUATOR

This feature lowers the volume at a single touch such as when conversation in the car is hard to hear or when you are stopping at a toll booth.

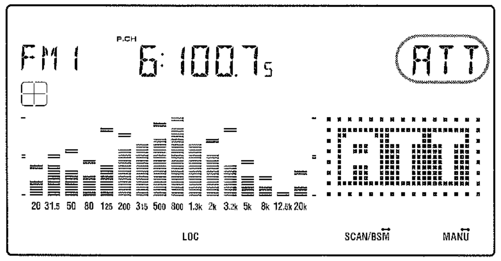




1 Temporarily lowering the volume

Press the [ATT] button.

"ATT" will be displayed and volume will be lowered to approximately 1/10 the current level.



2 Cancelling attenuation

Press the [ATT] button.

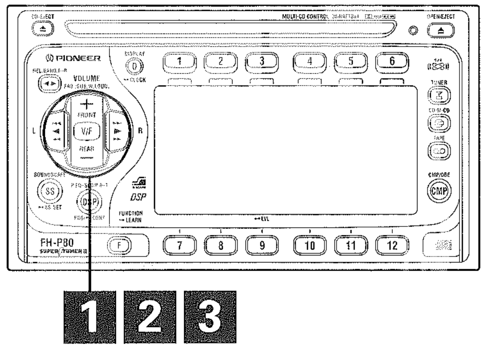
Normal display and volume will return.

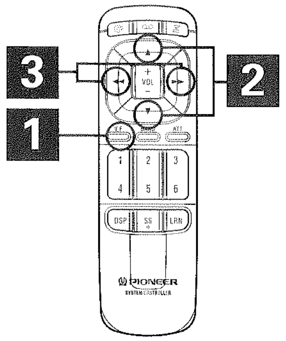
MEMO

- The attenuator can also be cancelled by pressing the [+] button or [–] button.
  The cancelled volume will be reduced to approximately 1/10 the current level.

FADER/BALANCE ADJUSTMENT

This feature adjusts the audio balance of the front speakers and rear speakers or the audio balance of the right speakers and left speakers.

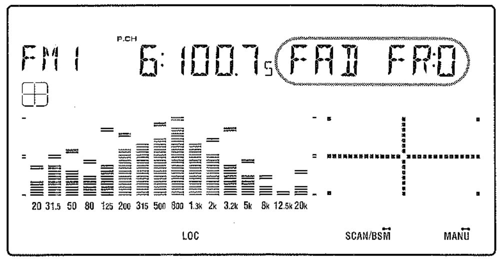




1 Selecting adjustment mode

Press the [V/F] button.

The unit will enter fader/balance adjustment mode.


FM 1
P.CH
6: 100.7
FAD F R:0
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
LOC
SCAN/BSM
MANU

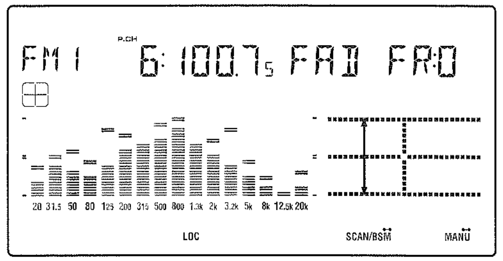
2 Adjusting the fader

- **Enhance front speaker sound by pressing the [+] button on the main unit or the ▲ button on the remote controller.**

  Front speaker sound will be enhanced each time this button is pressed.

- **Enhance rear speaker sound by pressing the [–] button on the main unit or the ▼ button on the remote controller.**

  Rear speaker sound will be enhanced each time this button is pressed.


FM 1
P.CH
6: 100.7
FAD F R:0
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
LOC
SCAN/BSM
MANU

The fader can be adjusted within the range "F:25" to "R:25".

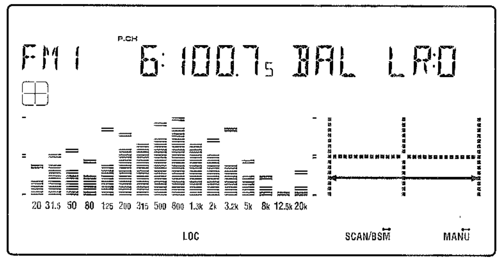
3 Adjusting the balance

- **Enhance left speaker sound by pressing the ◄ button on the main unit or the ◄◄ button on the remote controller.**

  Left speaker sound will be enhanced each time this button is pressed.

- **Enhance right speaker sound by pressing the ► button on the main unit or the ►► button on the remote controller.**

  Right speaker sound will be enhanced each time this button is pressed.


FM 1
P.CH
6: 100.7
BAL L R:0
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
LOC
SCAN/BSM
MANU

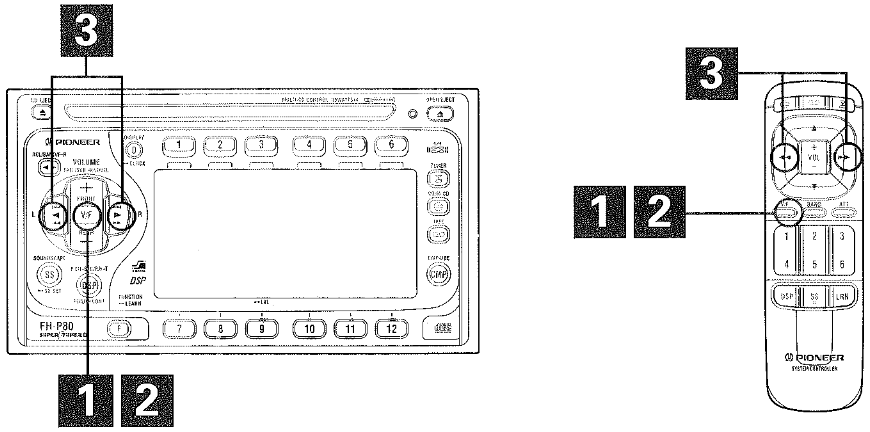
Balance can be adjusted within the range "L:25" to "R:25".

MEMO

- Adjustment mode will be cancelled if no operation occurs within 8 seconds.
- For those using 2-speaker systems, be sure to set "FAD FR:0".
- The fader/balance can be set at each position of the listening position setting. (☞ P.132) Selecting a positon at the listening positon setting brings up the lastly fored fader/balance values.

SUBWOOFER FUNCTION/ADJUSTMENT

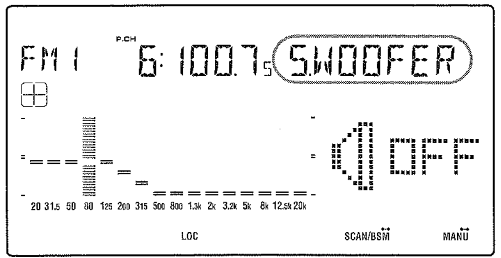
This feature allows you turn subwoofer output on and off and to adjust the output level.


3
3
1 2
1 2
PIONEER
FH-P80
V/F
DSP

1 Selecting adjustment mode

Press the [V/F] button 2 times.

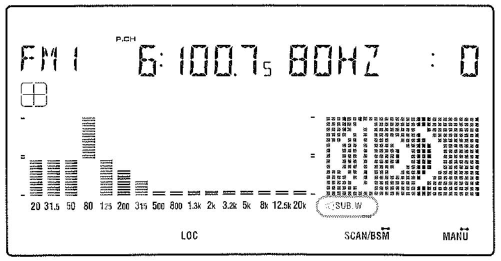
The unit will enter subwoofer adjustment mode.


FM1 6:100.7 SWOOFER
OFF
LOC
SCAN/BSM
MANU

2 Turning on the subwoofer function

Hold down the [V/F] button for more than 2 seconds.

The [SUB.W] indicator will light and the subwoofer function will come on.


FM1 6:100.7 80HZ : 0
SUB.W
LOC
SCAN/BSM
MANU

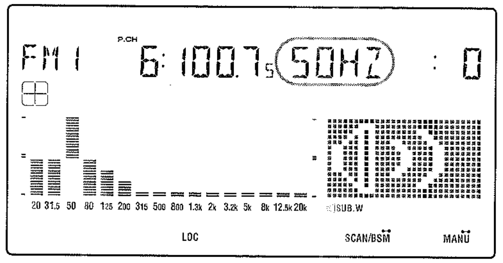
When the subwoofer function comes on, output to the subwoofer will be low-pass filtered thus shutting out highs above the cuttoff frequency and allowing only low sounds to pass.

Repeat the same procedure to turn off the subwoofer function. When it is off, the [SUB.W] indicator will go out and nothing will be output from the subwoofer.

3 Selecting the cutoff frequency

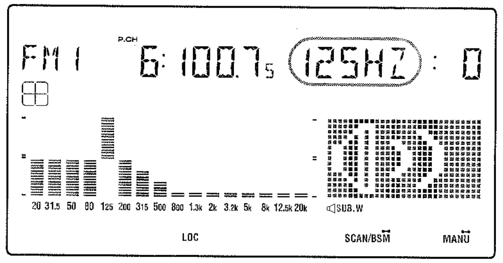
■ Select a lower cutoff frequency by pressing the ◄ button on the main unit or the ◄◄ button on the remote controller.

The cutoff frequency will be lowered, thus enhancing the lows.


FM1 6:100.7 50HZ : 0
SUB.W
LOC
SCAN/BSM
MANU

■ Select a higher cutoff frequency by pressing the ► button on the main unit or the ►► button on the remote controller.

The cutoff frequency will be increased, thus increasing the overall low range.

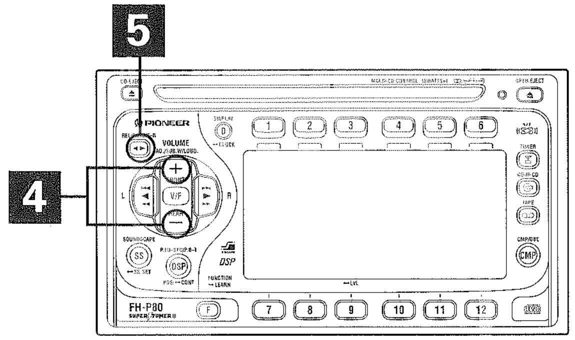

FM1 6:100.7 125HZ : 0
SUB.W
LOC
SCAN/BSM
MANU

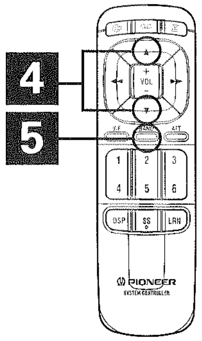
You can select from three cutoff frequencies: 50 Hz, 80 Hz and 125 Hz.

MEMO

- Adjustment mode will be cancelled if no operation occurs within 8 seconds.
- The subwoofer function is initially to ON.
- Once the fader is adjusted, the sound volume of the subwoofer will also be adjusted, interlocked with the front speaker volume. (☞ P.14)
- This function is effective only when used with the subwoofer. (☞ P.145)

SUBWOOFER FUNCTION/ADJUSTMENT - CONTINUED

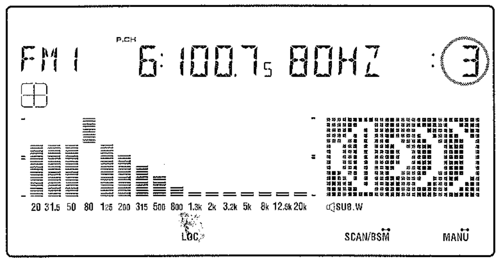

5
4
PIONEER
VOLUME
FH-P80



4 Adjusting the output level (volume)

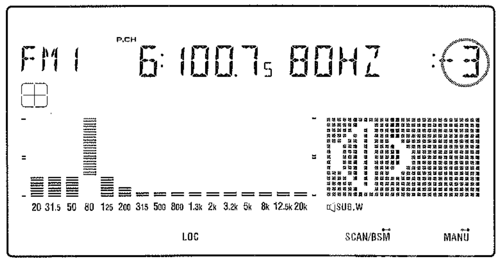
■ **Increase the output level by pressing the [+] button on the main unit or the ▲ button on the remote controller.**

The output level will increase each time the button is pressed.


FM 1 6: 100.7 5 80HZ :3
SUB.W
LOC
SCAN/BSM
MANU

■ **Decrease the output level by pressing the [–] button on the main unit or the ▼ button on the remote controller.**

The output level will decrease each time the button is pressed.


FM 1 6: 100.7 5 80HZ :-3
SUB.W
LOC
SCAN/BSM
MANU

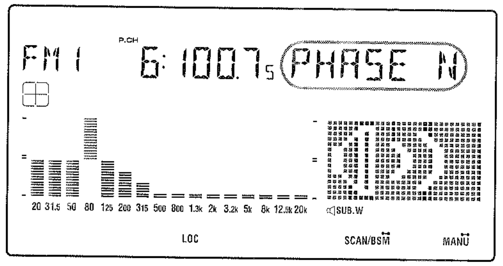
Output level can be adjusted within the range “–6” to “6”.

5 Switching the phase

Hold down the ◀▶ button on the main unit or [BAND] button on the remote controller for more than 2 seconds.

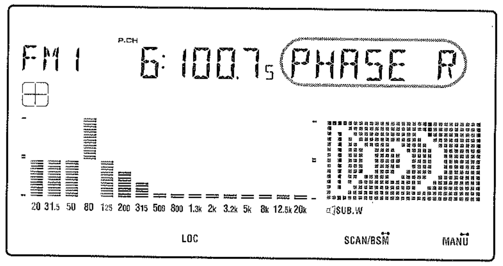
The phase setting will be switched between Phase N and Phase R each time the button is held down for more than 2 seconds.

“PHASE N” will appear when Phase N (Normal) is selected.


FM 1 6: 100.7 5 PHASE N
SUB.W
LOC
SCAN/BSM
MANU

Sound from the subwoofer will be output at the same time (zero degrees in phase) as from the front and rear speakers.

“PHASE R” will appear when Phase R (Reverse) is selected.


FM 1 6: 100.7 5 PHASE R
SUB.W
LOC
SCAN/BSM
MANU

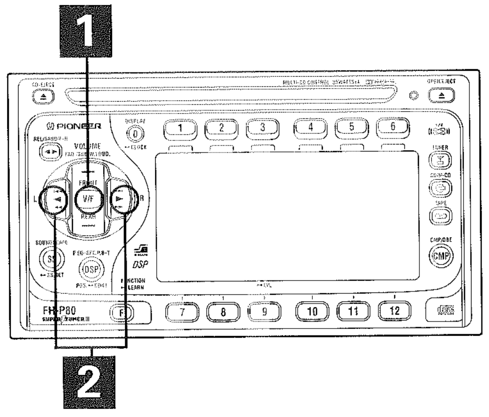
Sound from the subwoofer will be output at a slightly different timing (180-degree phase) as from the front and rear speakers.

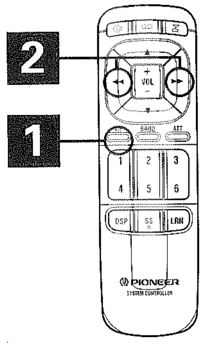
Switching subwoofer phase

- Sound output from the subwoofer includes frequency bands included in the sound output from the front and rear speakers. Depending on conditions inside the passenger compartment, reversing the phase of these same sounds can result in cancellation of these frequency bands. This subwoofer phase switching feature is provided to avoid this phenomenon.
- Make the phase setting by deciding whether Phase N or Phase R sounds best given conditions inside your car.

LOUDNESS FUNCTION

This feature allows you to compensate for apparent lack of low and high frequencies when listening at low volume.

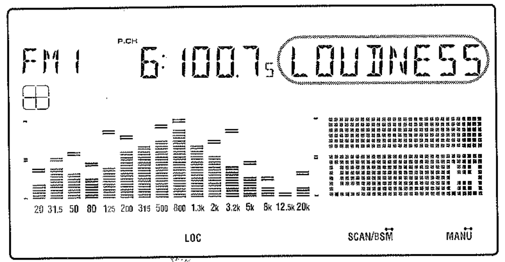




1 Selecting adjustment mode

Press the [V/F] button 3 times.

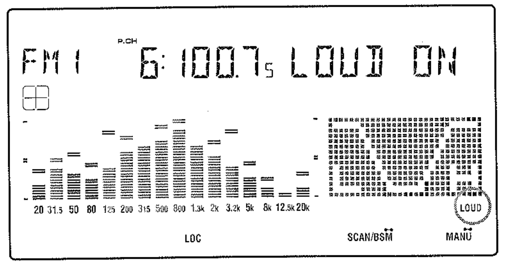
The unit will enter loudness adjustment mode.


FM 1
P.CH
6: 100.7
LOUDNESS
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
LOC
SCAN/BSM
MANU

2 Turning the loudness function on and off

- **Turn the loudness function on by pressing the ► button on the main unit or the ►► button on the remote controller.**

  The [LOUD] indicator will light and the loudness function will come on.


FM 1
P.CH
6: 100.7
LOUD ON
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
LOUD
LOC
SCAN/BSM
MANU

- **Turn the loudness function off by pressing the ◄ button on the main unit or the ◄◄ button on the remote controller.**

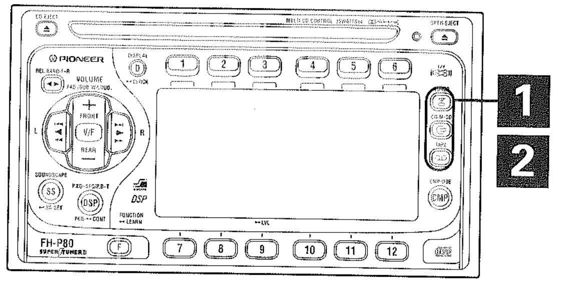
  The [LOUD] indicator will go out.

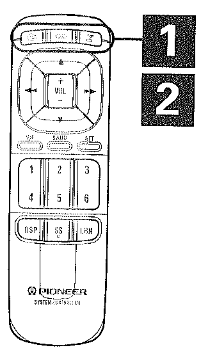
MEMO

- Adjustment mode will be cancelled if no operation occurs within 8 seconds.

SOURCE LEVEL ADJUSTER (SLA)

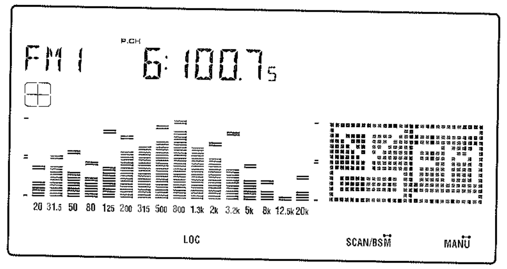
This feature compensates for differences in audio when switching the sound source.


1
2
PIONEER
FH-P80



1 Receiving FM broadcasts

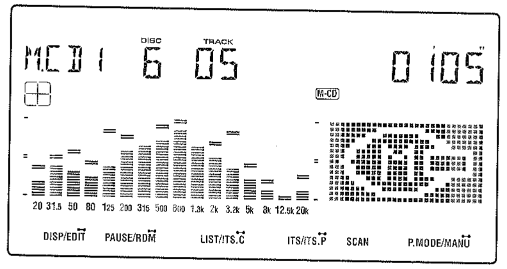
When the source is switched to radio, the FM broadcast is received and the sound level checked. (☛ P.26)

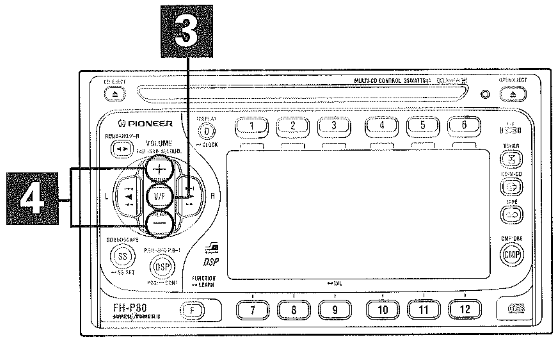

FM 1
P.CH
6: 100.7
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
LOC
SCAN/BSM
MANU

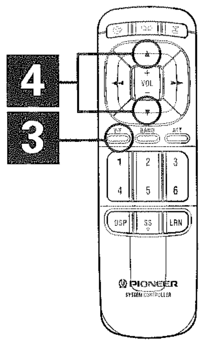
2 Switching the source to be adjusted

Switch to the source to be adjusted and check the difference in sound level compared to FM. (☛ P.10)

Example: When switching to the multi-CD player


MCD 1
DISC
TRACK
6
05
0 '05"
M-CD
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
DISP/EDIT
PAUSE/RDM
LIST/ITS.C
ITS/ITS.P
SCAN
P.MODE/MANU

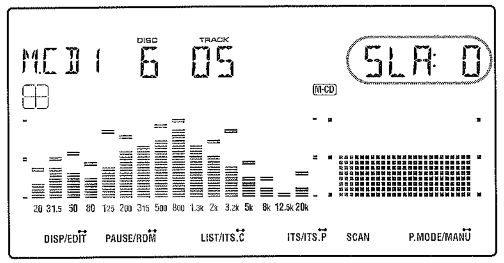

3
4
PIONEER
FH-P80



3 Switching to SLA adjustment mode

Hold down the [V/F] button for more than 2 seconds.

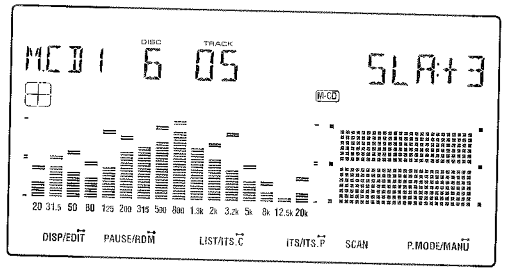
The unit will enter SLA adjustment mode.


M.CD 1
DISC 6
TRACK 05
SLA 0
M-CD
DISP/EDIT
PAUSE/RDM
LIST/ITS.C
ITS/ITS.P
SCAN
P.MODE/MANU

4 Adjusting the difference in sound level

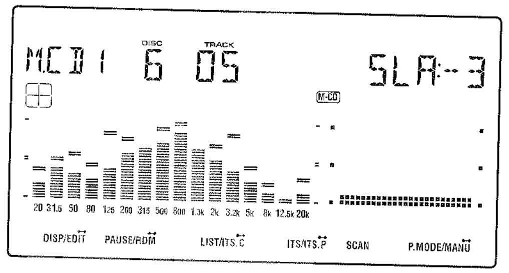
■ When the FM sound level is higher, press the [+] button on the main unit or the ▲ button on the remote controller.

The sound level of the source being adjusted will increase each time the button is pressed.


M.CD 1
DISC 6
TRACK 05
SLA+3
M-CD
DISP/EDIT
PAUSE/RDM
LIST/ITS.C
ITS/ITS.P
SCAN
P.MODE/MANU

■ When the FM sound level is lower, press the [–] button on the main unit or the ▼ button on the remote controller.

The sound level of the source being adjusted will decrease each time the button is pressed.


M.CD 1
DISC 6
TRACK 05
SLA–3
M-CD
DISP/EDIT
PAUSE/RDM
LIST/ITS.C
ITS/ITS.P
SCAN
P.MODE/MANU

Sound level can be adjusted within the range "–4" to "+4".

MEMO

- Adjustment mode will be cancelled if no operation occurs within 8 seconds.
- Each difference in sound level for AM, CD, tape, and AUX (☞ P.141) can be adjusted.
  However, the same setting is used for the built-in CD player and multi-CD player.
- Since differences in sound level are adjusted using the FM sound level as a reference, you cannot switch to SLA adjustment mode from FM mode.

Listening to the *RADIO*

CONTENTS

㉖ Listening to the radio

㉘ Switching the tuning step

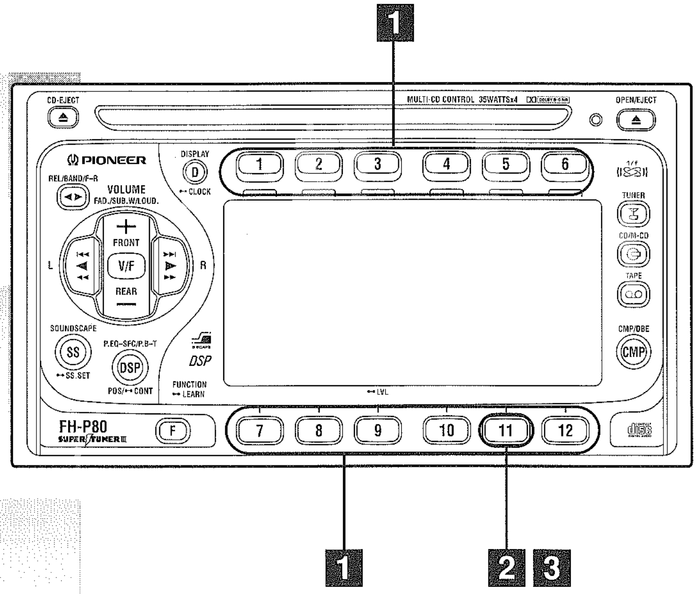
㉚ Local station function/adjustment

㉜ Preset memory

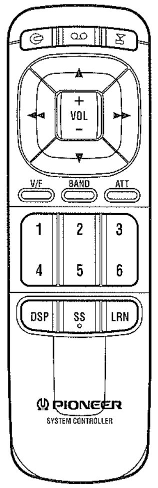
㉞ Preset tuning

㊱ Best stations memory (BSM)

㊲ Preset scan tuning



1
CD-EJECT
MULTI-CD CONTROL 35WATTSx4
OPEN/EJECT
PIONEER
DISPLAY
D
CLOCK
1
2
3
4
5
6
VOLUME
FAD./SUB./W.AUD.
FRONT
V/F
REAR
L
R
TUNER
TAPE
CMP/BBE
CMP
SOUNDSCAPE
SS
SS SET
DSP
POS/CONT
DSP
FUNCTION
LEARN
LVL
FH-P80
SUPERTUNER
F
7
8
9
10
11
12
1
2
3



VOL
V/F
BAND
ATT
1
2
3
4
5
6
DSP
SS
LRN
PIONEER
SYSTEM CONTROLLER

1 Preset memory

You can set your favorite station in the memory of any button you wish so you can call up that station anytime at a single touch.

2 Best stations memory

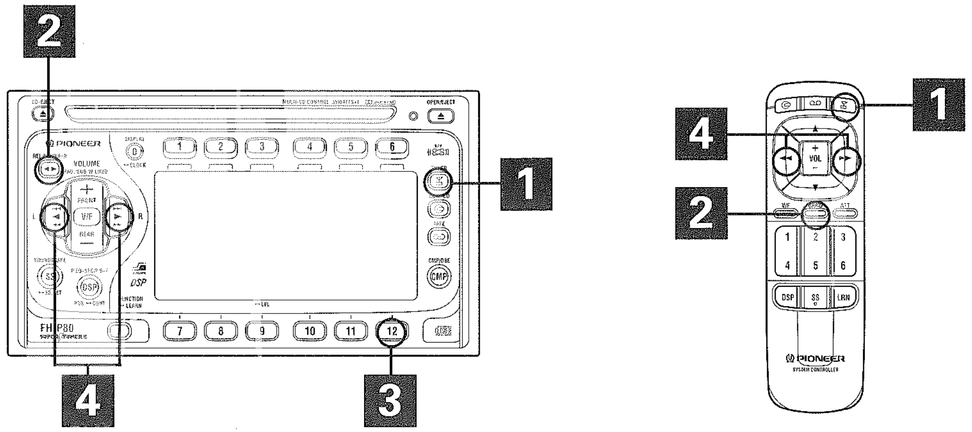
This function automatically searches for stations having the strongest signals and sets them in memory. This is convenient when searching for stations with good reception when you arrive at your destination.

3 Preset scan tuning

This feature calls up stations set in memory one after the other. This is useful when searching for a station to listen to or when checking which stations are set in memory.

LISTENING TO THE RADIO

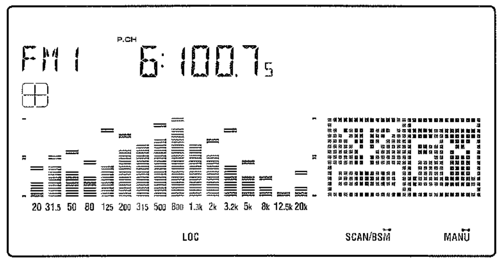
Listening to the FM/AM radio.


2
1
4
2
1
4
3
PIONEER
VOLUME
DSP
FH-P80
1 2 3 4 5 6
7 8 9 10 11 12
VOL
PIONEER

1 Selecting radio as the audio source

Press the 📡 button. (☞ P.10)

Tuner reception will begin once you have selected the radio as the source.


FM 1
P.CH
6: 100.7 5
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
LOC
SCAN/BSM
MANU

2 Selecting a band

Press the ◀▶ button on the main unit or the [BAND] button on the remote controller.

Each time the button is pressed, the band will be switched as follows:

→ FM1 ▶ FM2 ▶ AM

3 Switching the tuning mode

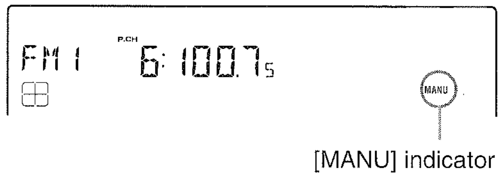
The tuning mode is initially set to seek tuning mode.

- **When the band is FM1, to light the function indicator press the number [12] button for more than 2 seconds. (☞ P.6)**
- **When the band is FM2 or AM, press the number [12] button for more than 2 seconds.**

Each time the button is pressed for more than 2 seconds, the tuning mode will switch between seek tuning mode and manual tuning mode.

When seek tuning mode is selected, the [MANU] indicator will go out. Under seek tuning mode, the stations having reception stronger than a fixed level are automatically found.

When manual tuning mode is selected, the [MANU] indicator will light. Under manual tuning mode, you can tune stations yourself looking at the frequency shown on the display.


FM 1
P.CH
6: 100.7 5
MANU
[MANU] indicator

4 Tuning to an adjacent frequency

- **When tuning to a lower frequency, press the ◀ button on the main unit or the ◀◀ button on the remote controller.**

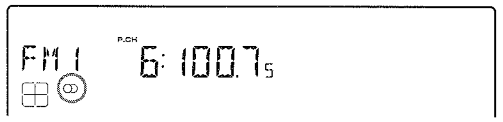
The frequency will go down each time the button is pressed.

- **When tuning to a higher frequency, press the ▶ button on the main unit or the ▶▶ button on the remote controller.**

The frequency will go up each time the button is pressed.

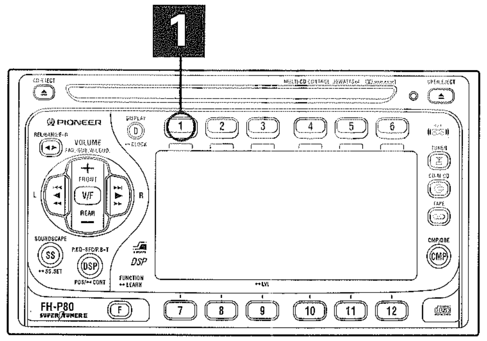
During manual tuning, holding down either adjustment button will cause the it to continue going up or down.

The ⚭ indicator will light when receiving a stereo FM broadcast.


FM 1
P.CH
6: 100.7 5

SWITCHING THE TUNING STEP

Switching the tuning step for the FM/AM bands.



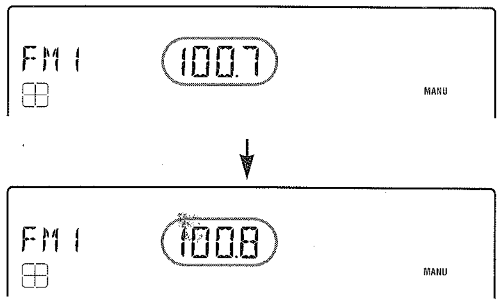
For FM bands

1 Switching the tuning step

Turn the ignition switch from off to on or ACC while holding down the number [1] button.

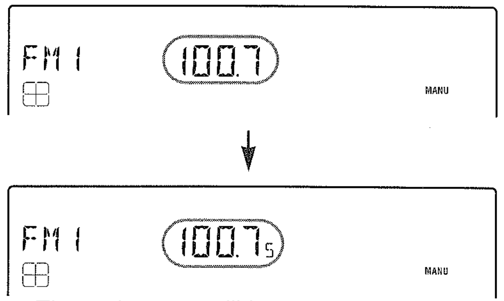
Each time this operation is performed, the tuning step for the FM band will switch between 100 kHz and 50 kHz.

When switching to 100 kHz



The tuning step will be set to 100 kHz.

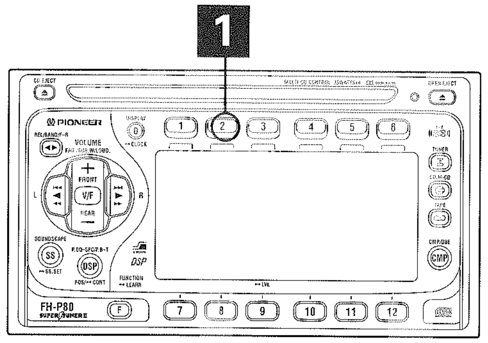
When switching to 50 kHz



The tuning step will be set to 50 kHz.

MEMO

- Initially the FM tuning step is set to 100 kHz.



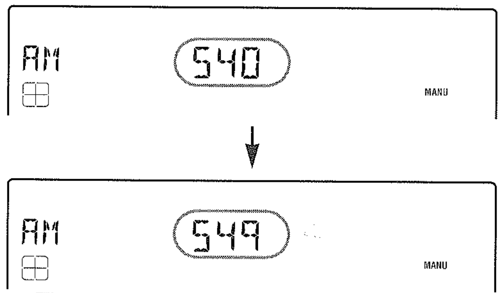
For the AM band

1 Switching the tuning step

Turn the ignition switch from off to on or ACC while holding down the number [2] button.

Each time this operation is performed, the tuning step for the FM band will switch between 9 kHz and 10 kHz.

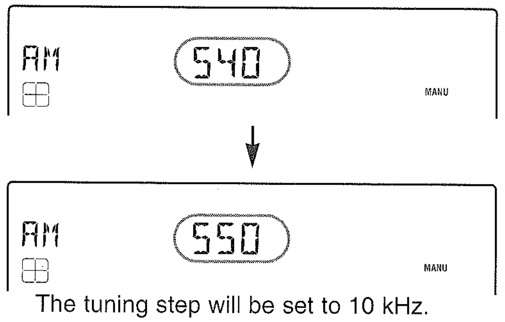
When switching to 9 kHz



The tuning step will be set to 9 kHz.

The tunable range will be set to 531 kHz to 1,602 kHz.

When switching to 10 kHz



The tuning step will be set to 10 kHz.

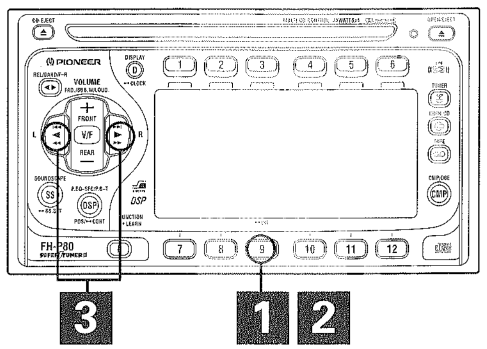
The tunable range will be set to 530 kHz to 1,710 kHz.

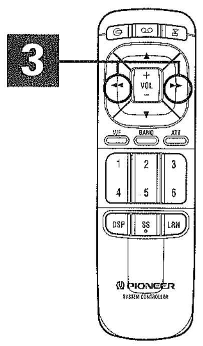
MEMO

- Initially the AM tuning step is set to 9 kHz.
- Set the AM tuning step to 10 kHz when using this system within North, Central and South America.
- If seek tuning is performed in 50 kHz steps, a frequency before a broadcasting station frequency may be received. Tune in the station by performing manual tuning or seek tuning again.

LOCAL STATION FUNCTION/ADJUSTMENT

Turning the local station function on/off and adjusting receiving signal level.



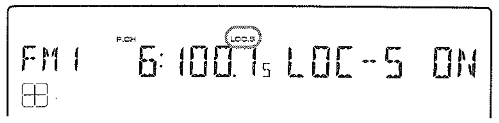


CHECK ● Check that the function indicator is lit. (☛ P.6)

1 Turning the local station function on

Press the number [9] button.

The [LOC.S] indicator will light and the local station function will be set to on.



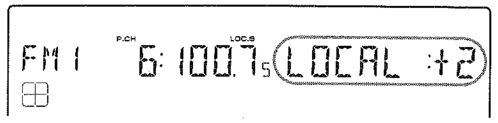
Repeat the same operation when you wish to turn off the local station function. The [LOC.S] indicator will go out.

2 Switching to adjustment mode

Press the number [9] button for more than 2 seconds.

The unit will enter adjustment mode.

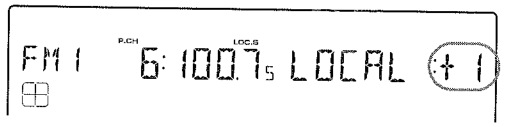
Example: When listening to the FM1 band



3 Adjusting the receiving signal level

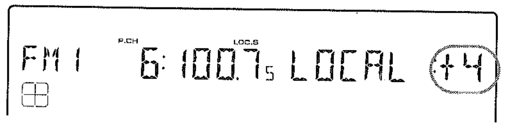
■ **To reduce the receiving signal level press the ◄ button on the main unit or ◄◄ button on the remote controller.**

The signal level will be lowered each time the button is pressed.



■ **To increase the receiving signal level press the ► button on the main unit or ►► button on the remote controller.**

The signal level will be increased each time the button is pressed.



The receiving signal level can be adjusted within the range "+1" to "+4" for the FM bands, and within the range "+1" to "+2" for the AM band. The lower the receiving signal level, the weaker the broadcast signal which can be received. The higher the receiving signal level, the stronger the broadcast signal needs to be for reception.

About the local station function

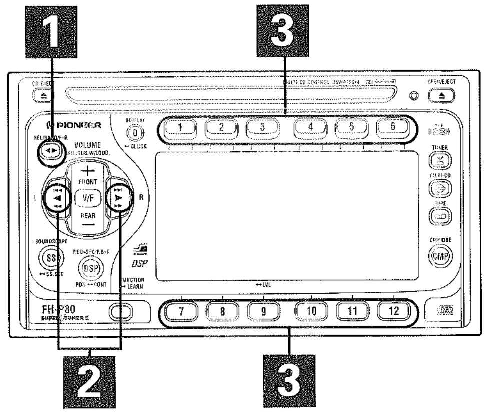
When local mode is set, the receiving signal sensitivity level used during seek tuning is increased so that only relatively strong broadcast signals are selected. This function is useful when selecting stations at night, when you are in a region where there are many broadcast stations, or when seek tuning stops on a station including a lot of noise.

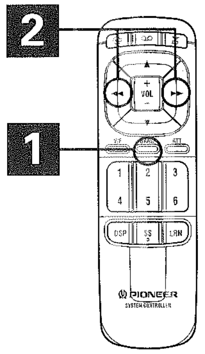
MEMO

- ● Adjustment mode will be cancelled if no operation occurs within 5 seconds.

PRESET MEMORY

Setting the current station in memory.


1
3
PIONEER
VOLUME
FRONT
WF
REAR
1
2
3
4
5
6
7
8
9
10
11
12
FH-P80
2
3


2
1
VOL
1
2
3
4
5
6
PIONEER

1 Selecting a band

Press the ◀▶ button on the main unit or the [BAND] button on the remote controller.

Each time the button is pressed, the band will be switched as follows:

→ FM1 ▶ FM2 ▶ AM —

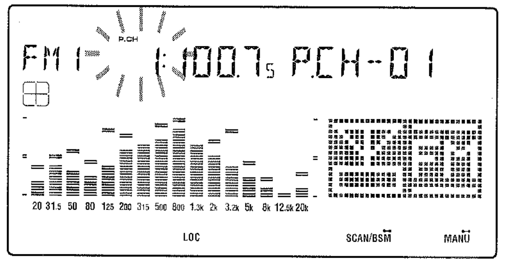
2 Tuning to the station you want to set in memory

Tune to the station you want to set in memory using either seek tuning or manual tuning (☛ P.26).

3 Setting the station in memory

- **Press one of the number [1] to [6] buttons on the main unit for more than 2 seconds when setting in memory associated with the number [1] to [6] buttons.**
- **Turn off the function indicator (☛ P.6) and press one of the number [7] to [12] buttons for more than 2 seconds when setting in memory associated with the number [7] to [12] buttons (only for FM1 band).**

Example: When pressing the number [1] button


P.CH
FM1 1 100.7 5 P.CH-01
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
LOC
SCAN/BSM
MANU

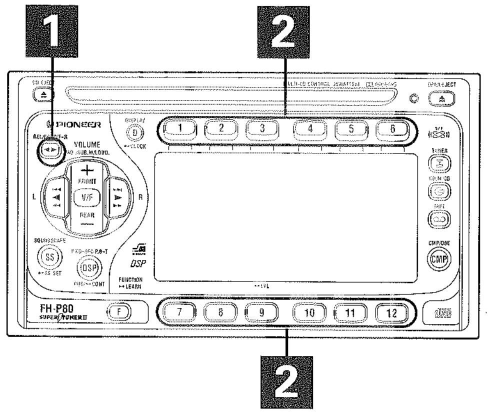
The Preset No. will blink, a beep will be emitted and the number will become lit, indicating that the station currently being received has been set in memory.

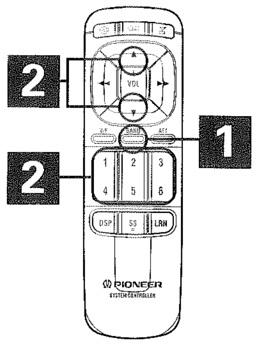
MEMO

- ● 12 stations from the FM1 band can be stored in the number buttons [1] to [12].
- ● 6 stations from the FM2 and AM bands can be stored in the number buttons [1] to [6].
- ● If a station is already set in the selected memory location, that information will be lost and the new station will be set.

PRESET TUNING

Calling up stations set in memory at a single touch.





1 Selecting a band

Press the ◀▶ button on the main unit or the [BAND] button on the remote controller.

Each time the button is pressed, the band will be switched as follows:

→ FM1 ▶ FM2 ▶ AM

2 Calling up a station set in memory

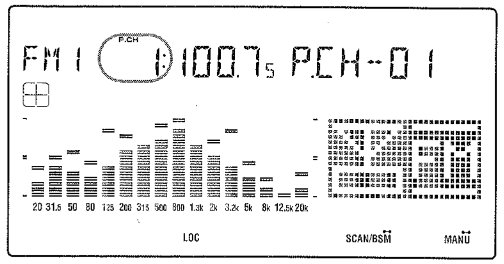
■ When directly selecting a Preset No.

- **Press one of the number [1] to [6] buttons when receiving from one of the [1] to [6] buttons.**

- **Turn off the function indicator (☛ P.6) and press one of the number [7] to [12] buttons on the remote unit or hold down one of the number [1] to [6] buttons on the remote controller for more than 2 seconds when receiving from one of the [7] to [12] buttons (FM1 band only).**

The selected Preset No. will light and the station set in that memory will be received.

Example: When Preset No. 1 is selected



■ When selecting an adjacent Preset No.

- **Press the ▲ button on the remote controller to go to a higher Preset No.**

The unit will tune to the next higher Preset No. each time the button is pressed.

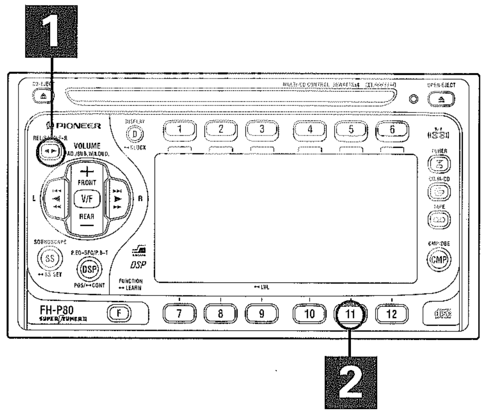
- **Press the ▼ button on the remote controller to go to a lower Preset No.**

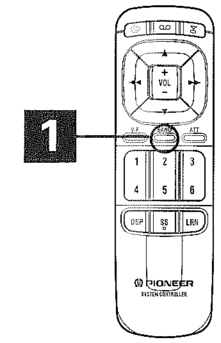
The unit will tune to the next lower Preset No. each time the button is pressed.

The selected Preset No. will light and the station set in that memory will be received.

BEST STATIONS MEMORY (BSM)

Setting many stations (stations with strong signals) in memory all at once.





CHECK ● Check that the function indicator is lit. (☛ P.6)

1 Selecting a band

Press the ◀▶ button on the main unit or the [BAND] button on the remote controller.

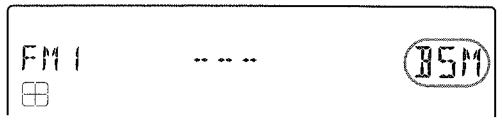
Each time the button is pressed, the band will be switched as follows:

→ FM1 ▶ FM2 ▶ AM →

2 Automatically setting stations in memory using BSM

Press the number [11] button for more than 2 seconds.

"BSM" will be displayed, and BSM will start.



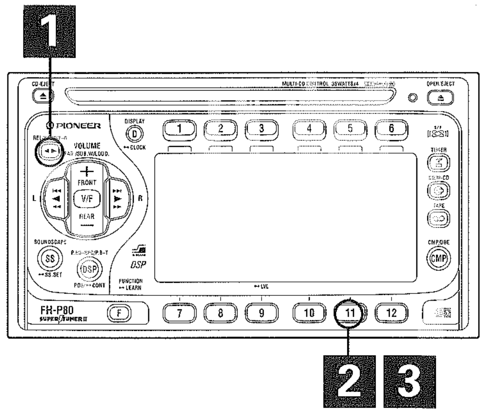
Stations with strong signals will be automatically received and set in buttons [1] to [12] (FM2 and AM bands in buttons [1] to [6]).
Once BSM is finished, the station set in button [1] will be received.

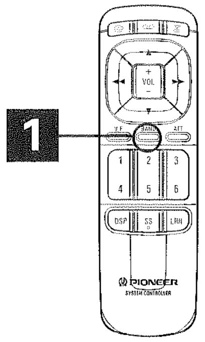
MEMO

- ● Press the number [11] button to cancel BSM in mid-operation.
- ● If the number of stations having strong signals is less than the number of buttons, previous settings will remain for buttons which are not used.

PRESET SCAN TUNING

Finding a station to listen to from those stations set in memory.





CHECK ● Check that the function indicator is lit. (☛ P.6)

1 Selecting a band

Press the ◀▶ button on the main unit or the [BAND] button on the remote controller.

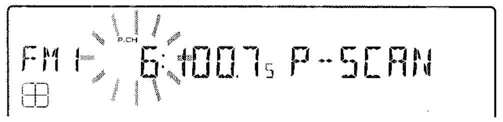
Each time the button is pressed, the band will be switched as follows:

→ FM1 ▶ FM2 ▶ AM →

2 Starting scan

Press the number [11] button.

Stations set in memory will be called up one by one for 8 seconds each. The associated Preset No. for each will be displayed blinking.



3 Ending scan

Press the number [11] button.

Preset scan tuning will be cancelled and station being recieved at that moment will continue being received.

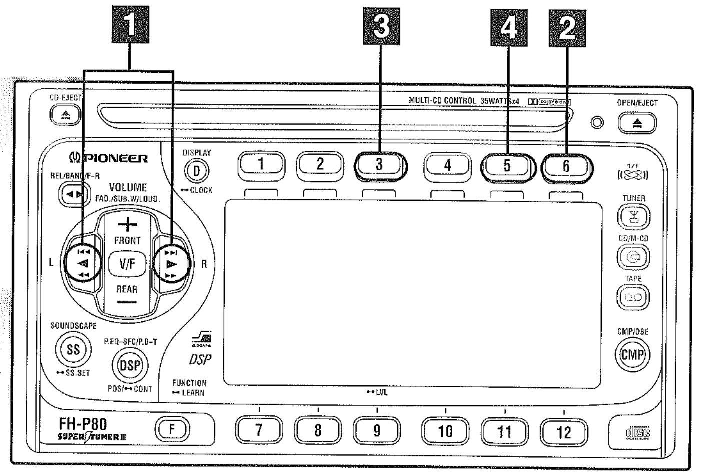
MEMO

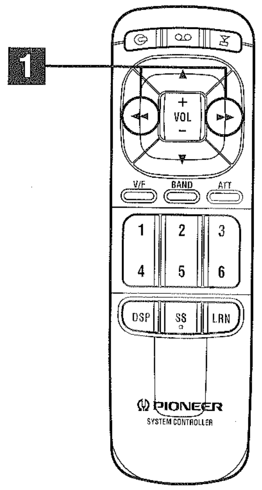
- ● Stations with weak signals will not be scanned even if they have been set in memory.
- ● Preset scan tuning will cycle continuously until it is cancelled.

Listening to a *CASSETTE TAPE*

CONTENTS

㊵ Listening to a cassette tape
㊷ Tape eject
㊸ Switching side A/side B
㊹ **Fast forward/rewind**
㊺ Music search
㊻ Dolby B/C noise reduction
㊼ Frequency level expander (FLEX)
㊽ **Blank skip**
㊾ Repeat playback


1
3
4
2
PIONEER
VOLUME
FRONT
V/F
REAR
SS
DSP
D
F
1
2
3
4
5
6
7
8
9
10
11
12
FH-P80


1
VOL
V/F
BAND
ATT
1
2
3
4
5
6
DSP
SS
LRN
PIONEER
SYSTEM CONTROLLER

1 Music search

This feature allows you to easily cue the current track or the next track.
You can reverse or advance through as many tracks as you like by repeating this operation.

2 Frequency level expander

This feature corrects reduced quality in high frequencies so that even old tapes and poorly recorded tapes can be enjoyed with better sound quality.

3 Blank skip

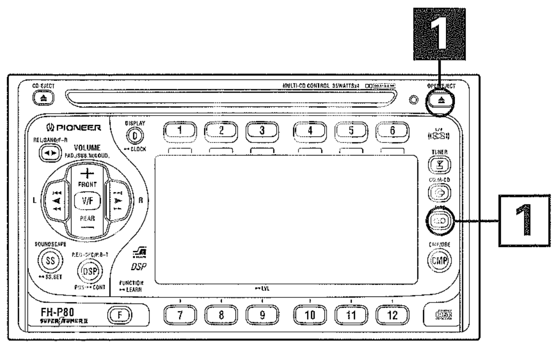
This feature skips blank parts on cassette tapes. It will automatically cue to the next track if the gap between two tracks is more than 12 seconds.

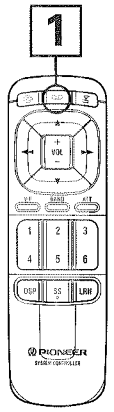
4 Repeat playback

This feature allows you to listen to the same track repeatedly.

LISTENING TO A CASSETTE TAPE

Loading a cassette tape and listening to it.



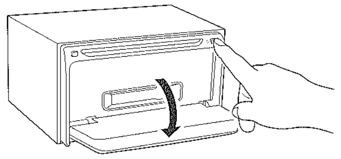


When no cassette tape is loaded

1 Opening the operation flap

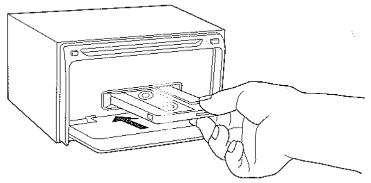
Press the ≜ (OPEN/EJECT) button.

The operation flap will open.

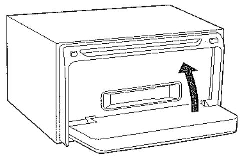


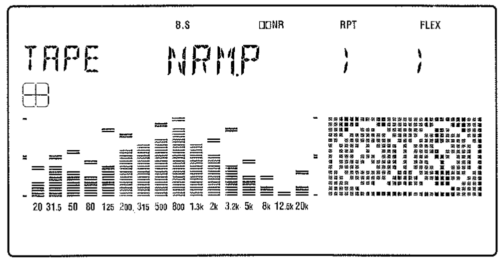
2 Inserting a tape

Insert a tape into the tape port with the tape surface facing right.



The operation flap will automatically close and tape playback will start.



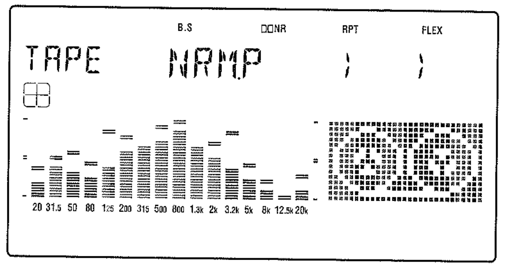

B.S
DNR
RPT
FLEX
TAPE
NRMP
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k

When a tape is loaded

1 Switching the source to the tape deck

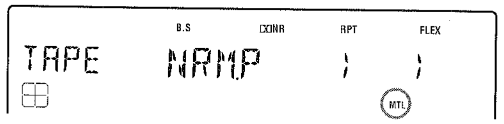
Press the ꝏ button. (☛ P.10)

Tape playback will start.


B.S
DNR
RPT
FLEX
TAPE
NRMP
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k

About the auto tape selector

The type of cassette tape (metal/chrome or normal) which is loaded is automatically detected and the playback equalizer (70 μs or 120 μs) is set accordingly. The [MTL] indicator will light when a metal/chrome cassette tape is loaded.


B.S
DNR
RPT
FLEX
TAPE
NRMP
MTL

Caution concerning the operation flap

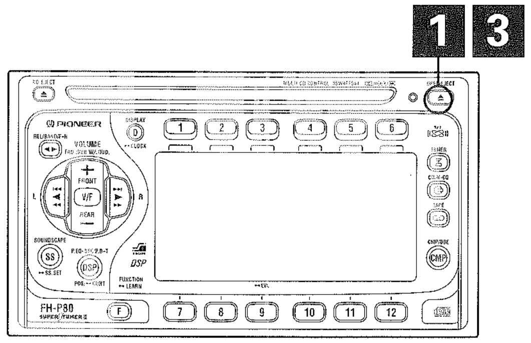
- While the operation flap is open, do not place any objects on the operation flap or subject it to strong downward force.

MEMO

- Switch the sound source when tape playback stops. (☛ P.10)

TAPE EJECT

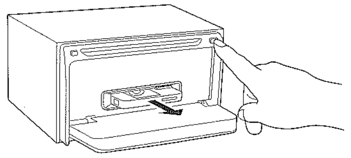
Ejecting a cassette tape.



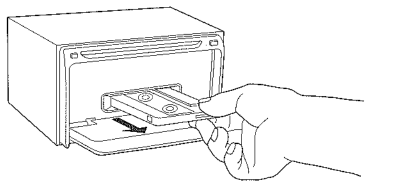
1 Opening the operation flap

Press the ⏏ (OPEN/EJECT) button.

The operation flap will open and the tape will come out automatically.



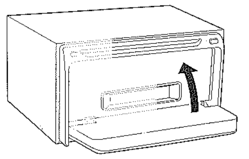
2 Removing the cassette tape



3 Closing the operation flap

Press the ⏏ (OPEN/EJECT) button.

The operation flap will close.

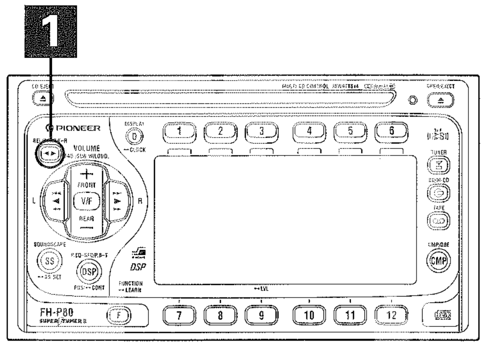


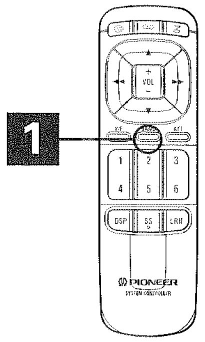
Caution concerning the operation flap

- While the operation flap is open, do not place any objects on the operation flap or subject it to strong downward force.

SWITCHING SIDE A/SIDE B

Switching between the side A and side B of the cassette tape during playback.



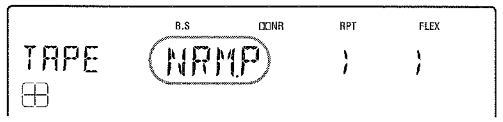


1 Switching the playback side

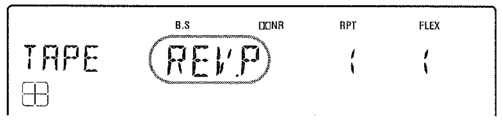
Press the ◂▸ button on the main unit or [BAND] button on the remote controller.

Tape playback will switch from the side A to the side B (or from the side B to the side A).

Normal playback

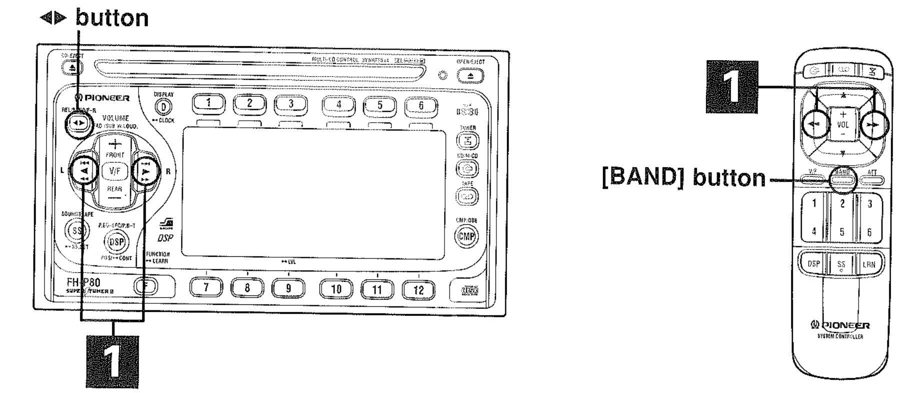


Reverse playback



FAST FORWARD/REWIND

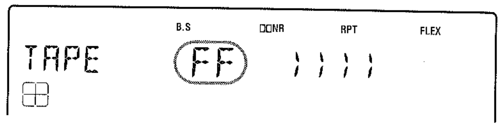
Fast forwarding or rewinding a cassette tape.



1 Fast forwarding or rewinding

■ Fast forward by pressing the ► button on the main unit or the ►► button on the remote controller.

"FF" will appear and fast forwarding will continue until the end of the tape.

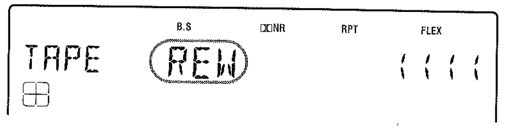


Once fast forwarding ends, tape playback of the reverse side will start automatically.

Fast forwarding can be cancelled in mid-operation by pressing the ► button on the main unit or the ►► button on the remote controller 2 times.
Normal tape playback will resume.

■ Rewind by pressing the ◄ button on the main unit or the ◄◄ button on the remote controller.

"REW" will appear and rewinding will continue until the start of the tape.



Once rewinding ends, tape playback of the same side will start automatically.

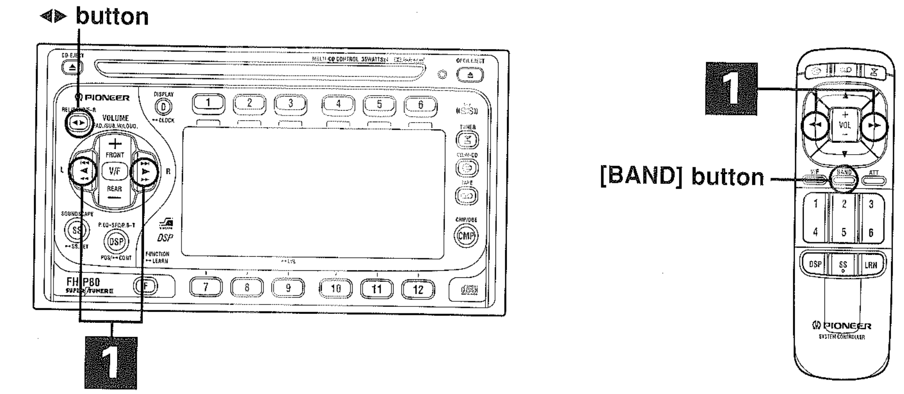
Rewinding can be cancelled in mid-operation by pressing the ◄ button on the main unit or the ◄◄ button on the remote controller 2 times.
Normal tape playback will resume.

MEMO

- Fast forward and reverse can also be cancelled in mid-operation by pressing the ◄► button on the main unit or the [BAND] button on the remote controller.

MUSIC SEARCH

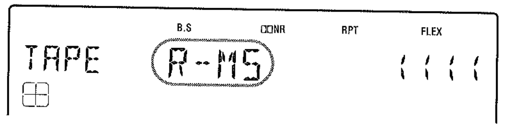
Cueing the current track or next track.



1 Using music search

■ Cue the start of the current track by pressing the ◄ button on the main unit or the ◄◄ button on the remote controller 2 times.

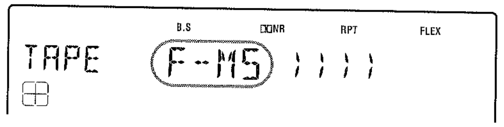
"R-MS" will appear, the tape will rewind to the start of the current track, and tape playback will start automatically.



Cueing of the current track can be cancelled by pressing the ◄ button on the main unit or the ◄◄ button on the remote controller.
Normal tape playback will resume.

■ Cue the start of the next track by pressing the ► button on the main unit or the ►► button on the remote controller 2 times.

"F-MS" will appear, the tape will fast forward to the start of the next track, and tape playback will start automatically.



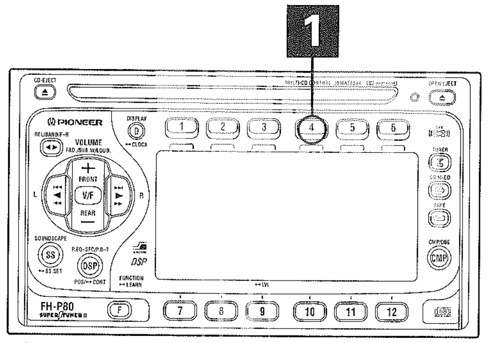
Cueing of the next track can be cancelled by pressing the ► button on the main unit or the ►► button on the remote controller.
Normal tape playback will resume.

MEMO

- Cueing may not function properly when using tapes containing certain types of recorded contents such as given below because the gap between tracks cannot be located properly.
  - When the gap between tracks is less than 4 seconds
  - When a blank period of more than 4 seconds continues such as during conversation
  - When very faint sounds continue for more than 4 seconds within a track
- Music search can also be cancelled in mid-operation by pressing the ◄► button on the main unit or the [BAND] button on the remote controller.

DOLBY B/C NOISE REDUCTION

Listening to a recorded cassette tape with Dolby B/C noise reduction on.


1
PIONEER
VOLUME
FRONT
V/F
REAR
DSP
FH-P80
1
2
3
4
5
6
7
8
9
10
11
12

1

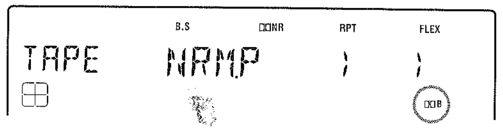
Switching to Dolby NR mode

Press the number [4] button on the main unit.

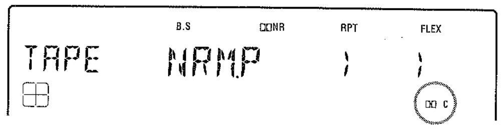
The Dolby NR mode will change as follows each time the button is pressed.

→ Dolby B NR ▶ Dolby C NR ▶ Cancel

The [DD B] indicator will light when you switch to Dolby B NR mode.


B.S
DDNR
RPT
FLEX
TAPE
NRM.P
DD B

The [DD C] indicator will light when you switch to Dolby C NR mode.

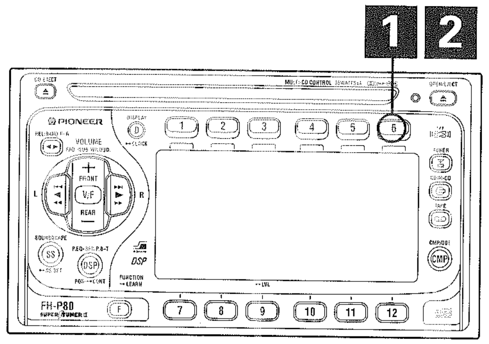

B.S
DDNR
RPT
FLEX
TAPE
NRM.P
DD C

MEMO

- The Dolby B NR system and Dolby C NR system are both systems for reducing the amount of hiss generated during tape playback.
- Use Dolby B NR mode when playing cassette tapes recorded with Dolby B NR set to on, and use Dolby C NR mode when playing cassette tapes recorded with Dolby C NR set to on.

FREQUENCY LEVEL EXPANDER (FLEX)

This feature corrects for reduced high frequencies so that even old tapes and poorly recorded tapes can be enjoyed with better sound quality.

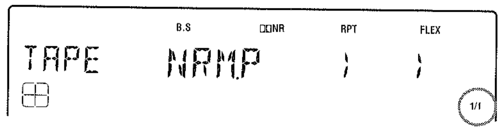

1
2
PIONEER
VOLUME
FRONT
V/F
REAR
DSP
FH-P80
1
2
3
4
5
6
7
8
9
10
11
12

1

Turning on the FLEX function

Press the number [6] button on the main unit.

The [1/f] indicator will light.


B.S
DDNR
RPT
FLEX
TAPE
NRM.P
1/f

2

Turning off the FLEX function

Press the number [6] button on the main unit.

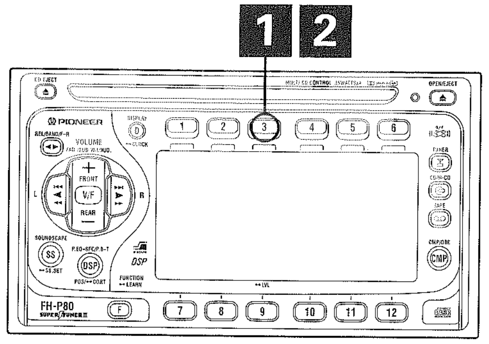
The [1/f] indicator will go out.

MEMO

- Sometimes no effect is gained even if this function is on when playing back a tape with good sound quality such as one recorded off a CD.

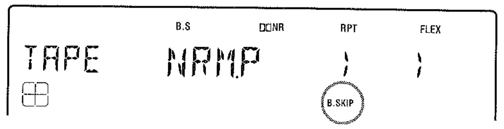
BLANK SKIP

Skipping blank parts lasting more than 12 seconds.



1 Turning on the blank skip function

Press the number [3] button on the main unit.
The [B.SKIP] indicator will light.



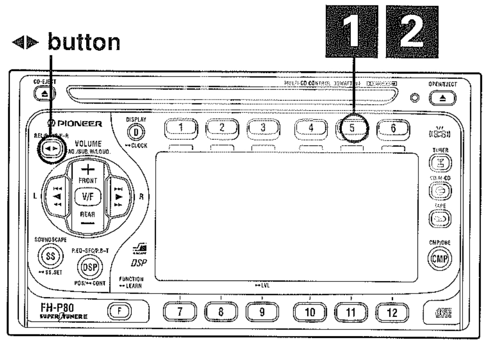
The start of the next track will be cued automatically if a gap of more than 12 seconds between tracks is encountered during tape playback.

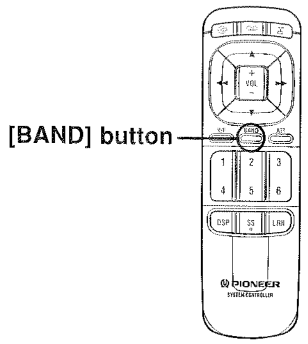
2 Turning off the blank skip function

Press the number [3] button on the main unit.
The [B.SKIP] indicator will go out.

REPEAT PLAYBACK

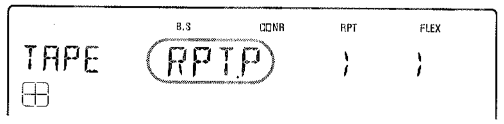
Listening to the same track repeatedly.





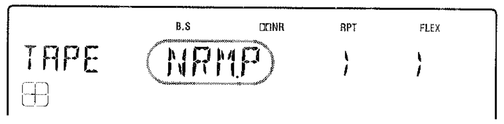
1 Listening to the same track repeatedly

Press the number [5] button on the main unit.
"RPT.P" will appear and the current track will be played repeatedly.



2 Ending repeat playback

Press the number [5] button on the main unit.
Normal playback will resume.



MEMO

- Repeat playback may not function properly when using tapes containing certain types of recorded contents such as given below because the gap between tracks cannot be located properly.
  - When the gap between tracks is less than 4 seconds
  - When a blank period of more than 4 seconds continues such as during conversation
  - When very faint sounds continue for more than 4 seconds within a track
- Repeat playback can also be cancelled by pressing the ◀▶ button on the main unit or the [BAND] button on the remote controller.
- Repeat playback is also cancelled when fast forward/rewind (☛ P.44), music search (☛ P.45), or source switching (☛ P.10) is performed.

Listening to the built-in *CD PLAYER*

CONTENTS

(52) Listening to the built-in CD player

(54) CD eject

(55) Track search

(56) Fast forward/reverse

(57) Pause

(58) Adjusting CD sound quality

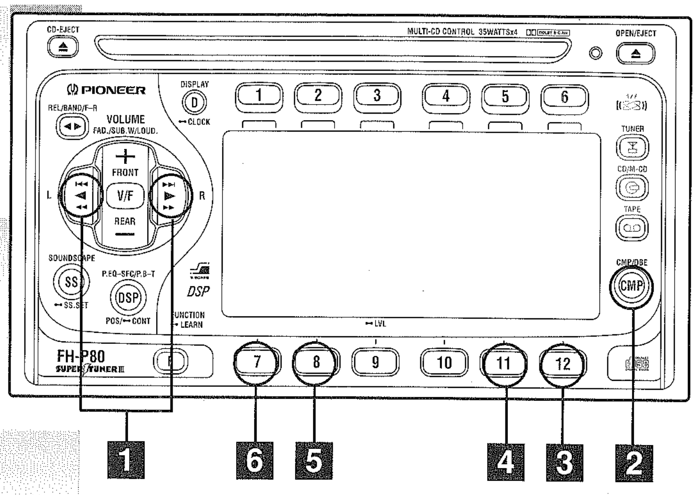
(60) Repeat playback

(61) Scan playback

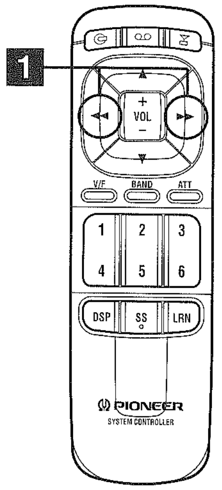
(62) Random playback

(63) Entering a disc title

(66) Displaying a disc title



CD-EJECT
MULTI-CD CONTROL 35WATTSx4
OPEN/EJECT
PIONEER
DISPLAY
CLOCK
VOLUME
FRONT
V/F
REAR
L
R
SOUNDSCAPE
SS
DSP
FUNCTION
LEARN
TUNER
TAPE
CMP
FH-P80
1
2
3
4
5
6
7
8
9
10
11
12
1
6
5
4
3
2



1
VOL
V/F
BAND
ATT
DSP
SS
LRN
PIONEER
SYSTEM CONTROLLER

1 Track search

This feature allows you to easily cue the current track or the next track.

2 Adjusting CD sound quality

The unit includes a COMP function for reducing the sound level differences by suppressing high level sounds and enhancing low level sounds. The unit also includes a DBE function for enhancing low frequencies which often seem lacking inside a car.

3 Repeat playback

This feature allows you to listen to the same track repeatedly.

4 Scan playback

This feature allows you to listen to just the first part of each track on a disc in succession.
This is useful when you want to know what is on a disc or are searching for a track you want to listen to.

5 Random playback

This feature plays back the disc leaving the order of track selection up to the microcontroller.
Enjoy listening to a disc in a different track order.

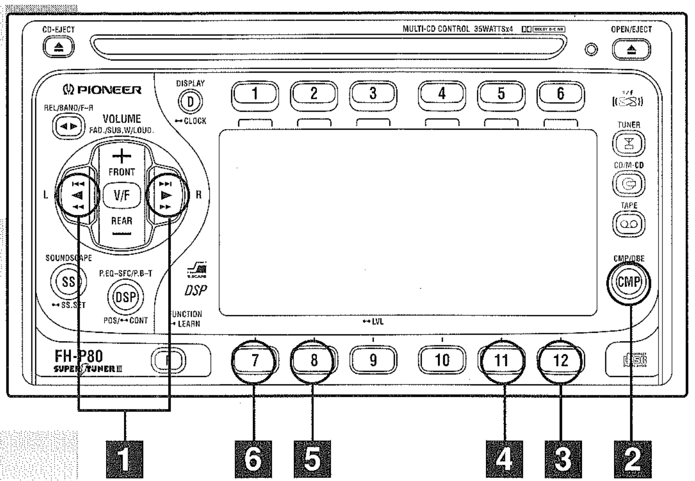
6 Disc title function

This feature allows you to enter a disc title and have that title be displayed when playing back that disc.
Disc playback can be more enjoyable by entering a title you like.

Listening to the built-in *CD PLAYER*

CONTENTS

(52) Listening to the built-in CD player
(54) CD eject
(55) Track search
(56) Fast forward/reverse
(57) Pause
(58) Adjusting CD sound quality
(60) Repeat playback
(61) Scan playback
(62) Random playback
(63) Entering a disc title
(66) Displaying a disc title


CD-EJECT
OPEN/EJECT
PIONEER
DISPLAY
VOLUME
FRONT
V/F
REAR
L
R
SS
DSP
CMP
1
2
3
4
5
6
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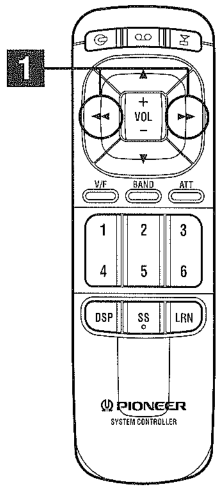
9
10
11
12
FH-P80
1
6
5
4
3
2


1
VOL
V/F
BAND
ATT
1
2
3
4
5
6
DSP
SS
LRN
PIONEER
SYSTEM CONTROLLER

1 Track search

This feature allows you to easily cue the current track or the next track.

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The unit includes a COMP function for reducing the sound level differences by suppressing high level sounds and enhancing low level sounds. The unit also includes a DBE function for enhancing low frequencies which often seem lacking inside a car.

3 Repeat playback

This feature allows you to listen to the same track repeatedly.

4 Scan playback

This feature allows you to listen to just the first part of each track on a disc in succession.
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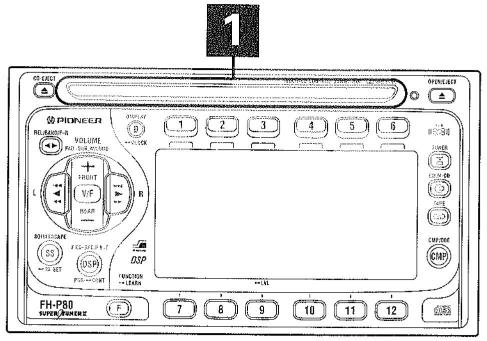
This feature plays back the disc leaving the order of track selection up to the microcontroller.
Enjoy listening to a disc in a different track order.

6 Disc title function

This feature allows you to enter a disc title and have that title be displayed when playing back that disc.
Disc playback can be more enjoyable by entering a title you like.

LISTENING TO THE BUILT-IN CD PLAYER

Listening to a CD using the built-in CD player.


1
FH-P80
PIONEER
VOLUME
DSP
1 2 3 4 5 6
7 8 9 10 11 12

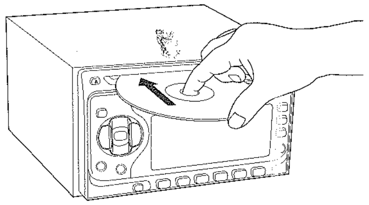
When no disc is loaded

Before inserting a disc

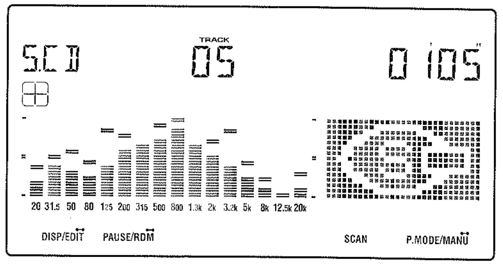
- First check that no disc is loaded before inserting a disc.
- This unit can play 8-cm CDs without an adaptor. Do not use an adaptor when inserting an 8-cm CD, as the adaptor may slip out of place and you may not be able to get the disc out.

1 Inserting a disc

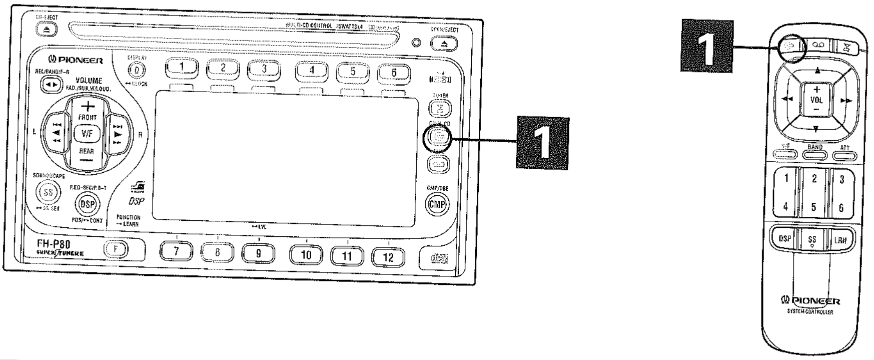
Insert a disc into the disc port with the signal surface (rainbow colored surface) facing down.



Disc playback will start.


SCD
TRACK
05
0 10 5
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
DISP/EDIT
PAUSE/RDM
SCAN
P.MODE/MANU

The current track No. and elapsed playback time will be displayed.

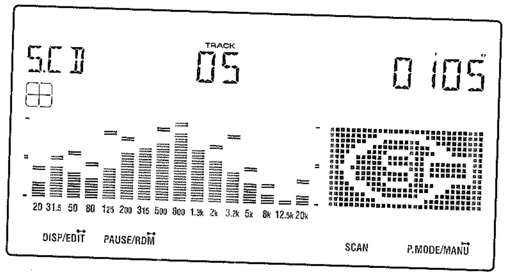

1
1
FH-P80
PIONEER

When a disc is loaded

1 Switching the source to the built-in CD player

Press the ⊖ button. (☛ P.10)

Disc playback will start.


SCD
TRACK
05
0 10 5
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
DISP/EDIT
PAUSE/RDM
SCAN
P.MODE/MANU

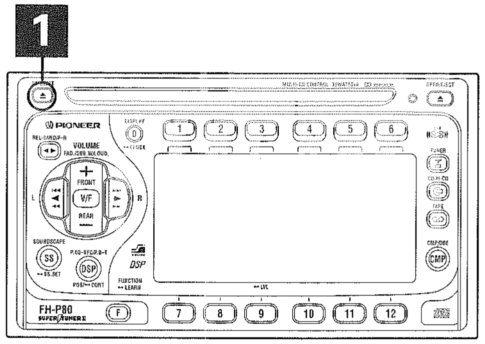
The current track No. and elapsed playback time will be displayed.

MEMO

- The disc will be ejected automatically if you insert it with the signal side face up.
- Disc playback can be stopped by switching sources (☛ P.10) or by pausing (☛ P.57).
- When disc playback is resumed, playback starts from near the location playback stopped.

CD EJECT

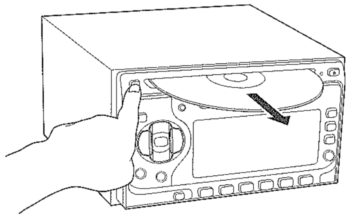
Ejecting a disc.


1
PIONEER
FH-P80

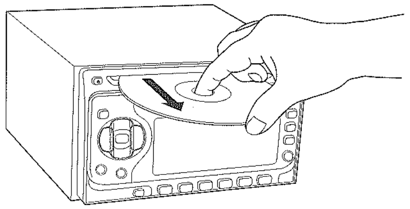
1 Ejecting a disc

Press the ▲ (CD-EJECT) button.

The disc will be ejected.

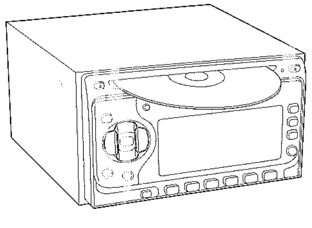


2 Removing the disc



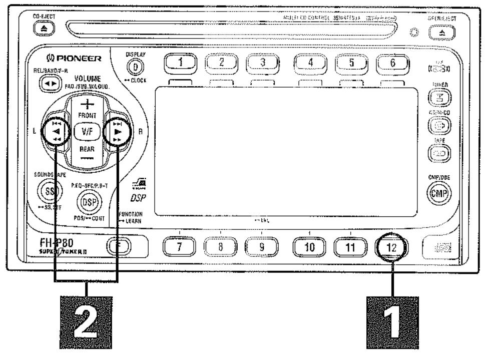
Store your discs immediately

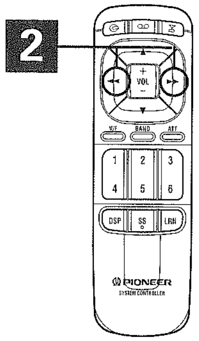
- Do not let your discs lay around as shown in the illustration below, as they may warp or fall.



TRACK SEARCH

Cueing a track you want to listen to.


2
1
PIONEER
FH-P80



1 Turning off the [MANU] indicator if it is on

Press the number [12] button for more than 2 seconds.

The [MANU] indicator will go out.

2 Selecting a track

■ Cue to a lower track No. by pressing the ◄ button on the main unit or the ◄◄ button on the remote controller.

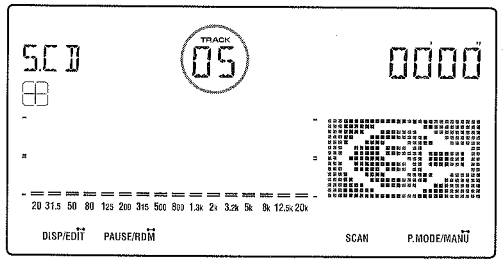
The track No. will become smaller each time the button is pressed.

■ Cue to a higher track No. by pressing the ► button on the main unit or the ►► button on the remote controller.

The track No. will become larger each time the button is pressed.

The selected track No. will light and disc playback will start.

Example: When track No.5 is selected

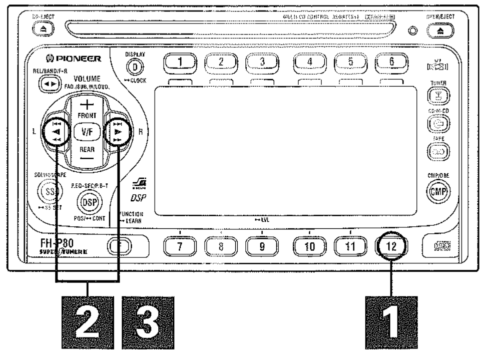

5.CD
TRACK
05
0000
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
DISP/EDIT
PAUSE/RDM
SCAN
P.MODE/MANU

MEMO

- The track No. will change continuously if the button is held down.
- The remote controller is operable irrespective of whether the [MANU] indicator is it or not.

FAST FORWARD/REVERSE

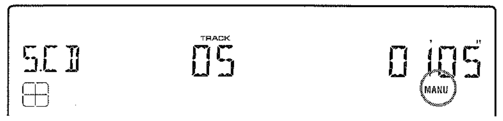
Finding the location you want to listen to.



1 Lighting the [MANU] indicator

Press the number [12] button for more than 2 seconds.

The [MANU] indicator will light.



2 Starting fast forward or reverse

- **Fast forward by holding down the ► button on the main unit.**

  Fast forwarding of the disc will start and you will hear a fast forward sound.

- **Reverse by holding down the ◄ button on the main unit.**

  Reversing of the disc will start and you will hear a reversing sound.

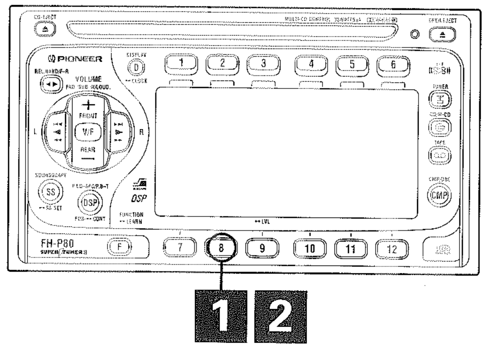
3 Ending fast forward/reverse

Release the button.

Disc playback will start once you release the button.

PAUSE

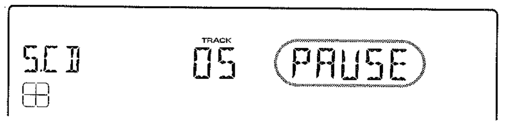
Pausing disc playback.



1 Pausing disc playback

Press the number [8] button.

"PAUSE" will appear and disc playback will stop.



2 Resuming disc playback

Press the number [8] button.

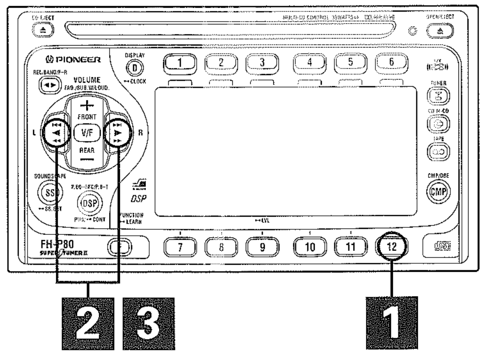
Disc playback will resume.

MEMO

- Functions other than fast forward/reverse can be used even during pause.

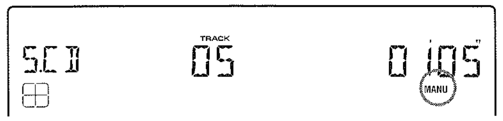
FAST FORWARD/REVERSE

Finding the location you want to listen to.



1 Lighting the [MANU] indicator

Press the number [12] button for more than 2 seconds.
The [MANU] indicator will light.



2 Starting fast forward or reverse

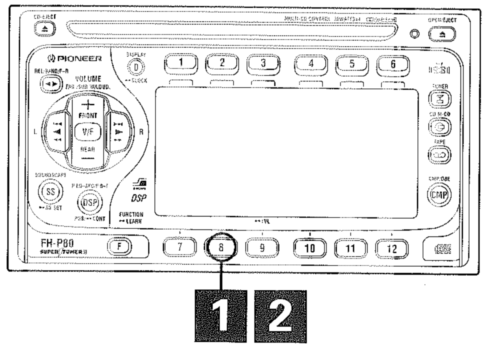
- **Fast forward by holding down the ► button on the main unit.**
  Fast forwarding of the disc will start and you will hear a fast forward sound.
- **Reverse by holding down the ◄ button on the main unit.**
  Reversing of the disc will start and you will hear a reversing sound.

3 Ending fast forward/reverse

Release the button.
Disc playback will start once you release the button.

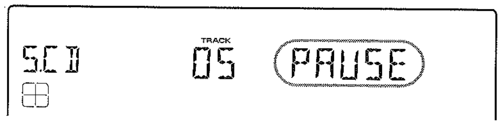
PAUSE

Pausing disc playback.



1 Pausing disc playback

Press the number [8] button.
" PAUSE " will appear and disc playback will stop.



2 Resuming disc playback

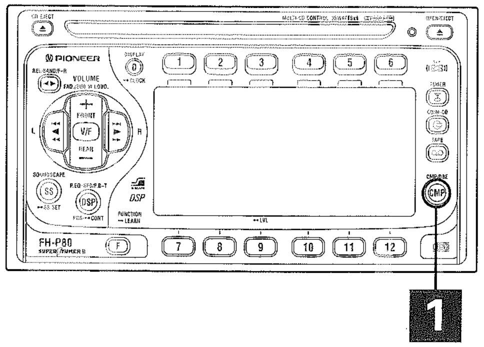
Press the number [8] button.
Disc playback will resume.

MEMO

- Functions other than fast forward/reverse can be used even during pause.

ADJUSTING CD SOUND QUALITY

Reducing sound level differences between high and low level sounds, and enhancing low frequencies.



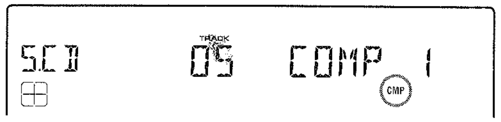
1 Switching sound quality adjustment functions

Press the [CMP] button.

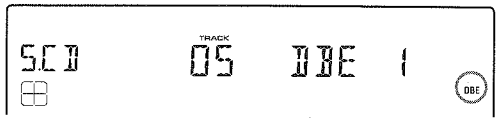
The sound quality adjustment function being used will change as shown below each time the button is pressed.

→ COMP OFF ▸ COMP 1 ▸ COMP 2 ─┐
└─ DBE 2 ◂ DBE 1 ◂ COMP OFF ←┘

The [CMP] indicator will light when "COMP 1" or "COMP 2" is selected.



The [DBE] indicator will light when "DBE 1" or "DBE 2" is selected.



There are two levels to both the COMP and DBE functions.

"COMP 2" is more effective than "COMP 1", and "DBE 2" is more effective than "DBE 1".

About the COMP function

"COMP" stands for COMPression.
The COMP function suppresses high level sounds and enhances low level sounds so as to reduce the overall level difference among sounds. This function is useful when there is difficulties in discerning low level sounds.

About the DBE function

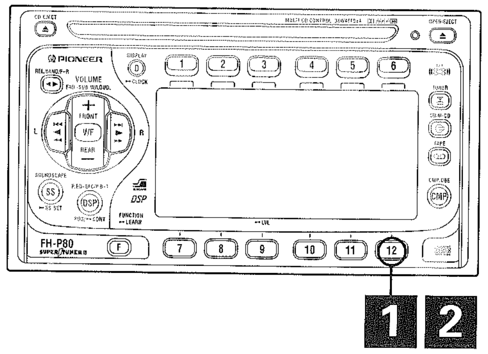
"DBE" stands for Dynamic Bass Emphasis.
The DBE function enhances low frequencies which often seem lacking inside a car.

MEMO

- The function display will be cancelled if no operation occurs for 3 seconds.

REPEAT PLAYBACK

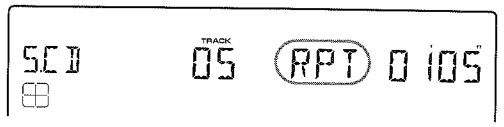
Listening to the same track repeatedly.



1 Listening to the same track repeatedly

Press the number [12] button.

"RPT" will appear and the current track will be played back repeatedly.



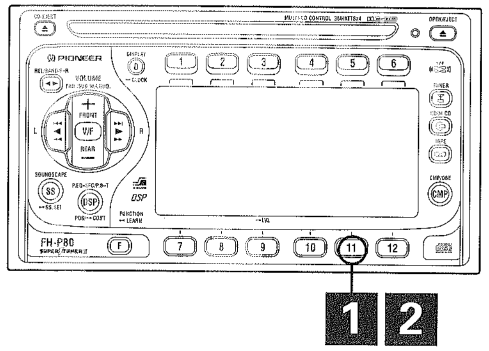
2 Ending repeat playback

Press the number [12] button.

"RPT" will go out and normal disc playback will resume.

SCAN PLAYBACK

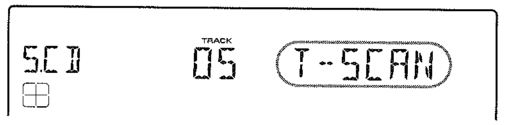
Listening to just the first part of each track in succession.



1 Searching for a track you want to listen to

Press the number [11] button.

"T-SCAN" will appear and the first 10 seconds of each successive track will be played back.



2 Ending the scan function

Press the number [11] button.

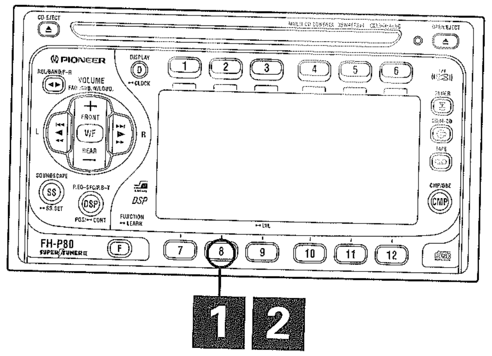
"T-SCAN" will go out, scan playback will be cancelled, and normal disc playback will resume.
You can now continue listening from the track where you pressed the button.

MEMO

- Scan playback is cancelled when the scan function returns to the first track which was scanned.

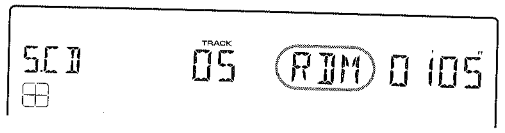
RANDOM PLAYBACK

Listening to a disc randomly, leaving track selection up to the microcontroller.



1 Starting random playback

Hold down the number [8] button for more than 2 seconds.
"RDM" will appear and random playback will start.



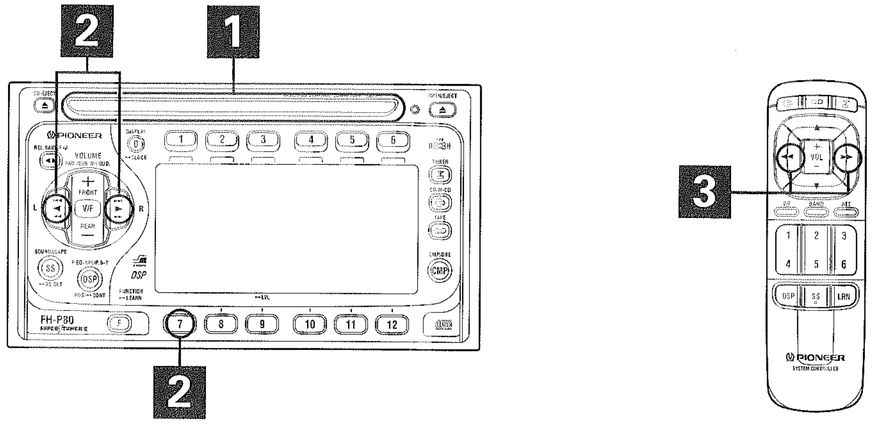
Once playback of the current track ends, the microcontroller inside the built-in CD player will select the next track.

2 Ending random playback

Hold down the number [8] button for more than 2 seconds.
"RDM" will go out and normal disc playback will resume.

ENTERING A DISC TITLE

Storing a title in memory for the current disc.

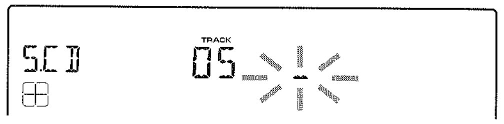


1 Loading the disc whose title you wish to enter

Disc playback will begin. (☛ P.52)

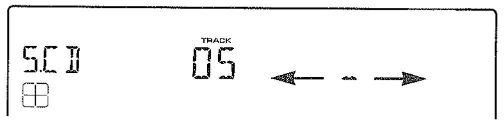
2 Selecting Title Enter mode

Hold down the number [7] button for more than 2 seconds.
"_" will blink in the display and the unit will enter Title Enter mode.

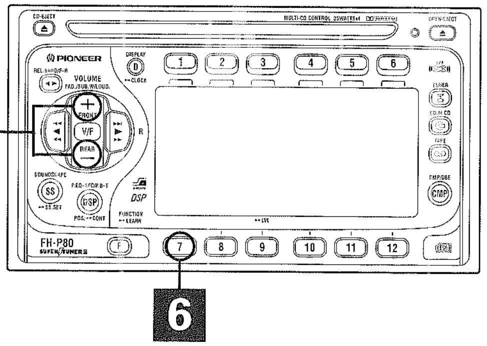


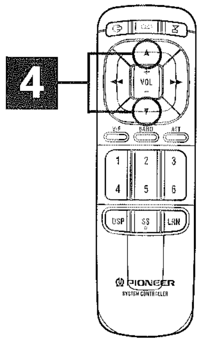
3 Selecting the input position

- **Move left by pressing the ◄ button on the main unit or the ◄◄ button on the remote controller.**
  The blinking underscore will move left each time the button is pressed.
- **Move right by pressing the ► button on the main unit or the ►► button on the remote controller.**
  The blinking underscore will move right each time the button is pressed.



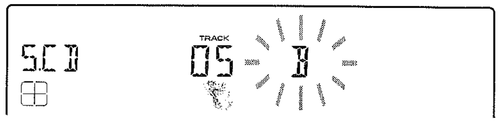
ENTERING A DISC TITLE-CONTINUED





4 Selecting the character to input

- **Select the character in the forward direction by pressing the [+] button on the main unit or the ▲ button on the remote controller.**
  Each character in order will be displayed blinking each time this button is pressed.
- **Select the character in the reverse direction by pressing the [–] button on the main unit or the ▼ button on the remote controller.**
  Each character in reverse order will be displayed blinking each time this button is pressed.



Characters are available in the order _ (space), alphabet (A–Z), symbols (✻ +, – . /), and numbers (0–9).

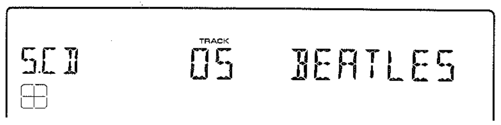
5 Entering all characters

Repeat steps 3 and 4.

6 Entering the title into memory

Press the number [7] button.

The entered title will be displayed and Title Enter mode will be cancelled.



About the disc title function

The disc title function allows you to enter a title for a disc into memory and have that title be displayed during disc playback (☛ P.52).
Disc playback can be more enjoyable by entering a title you like.

- A disc title of up to 8 characters can be entered per disc.
- A built-in CD player disk title function can store up to 48 disc titles.
- When titles for more than 48 discs heve been stored, the oldest disc information is thrown out, and new disc inaformation is stored in its place.
- Titles are entered for each individual disc. Even if the disc is taken out of the player, information stored in that disc will not be lost.
- When using this unit in combination with a multi-CD player, it is possible to store disc titles for up to 100 discs.

⚠ **CAUTION**

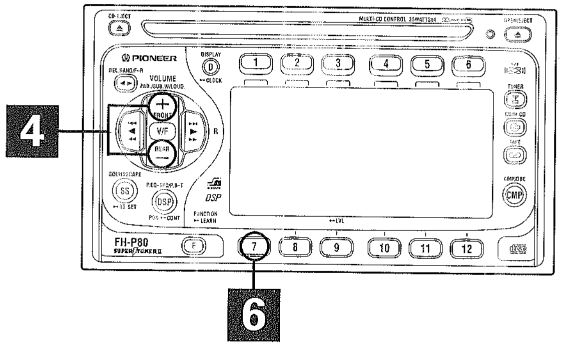
To prevent accidents

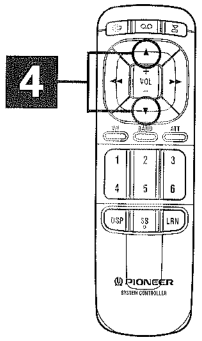
- You need to look carefully at the display to enter a title. To prevent accidents, do not enter titles while driving.

MEMO

- When you enter a character by mistake or wish to change a character, you can overwrite it by entering a new character.

ENTERING A DISC TITLE-CONTINUED





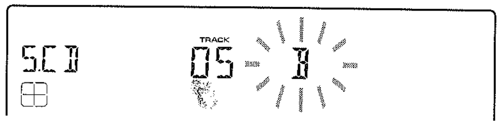
4 Selecting the character to input

■ **Select the character in the forward direction by pressing the [+] button on the main unit or the ▲ button on the remote controller.**

Each character in order will be displayed blinking each time this button is pressed.

■ **Select the character in the reverse direction by pressing the [–] button on the main unit or the ▼ button on the remote controller.**

Each character in reverse order will be displayed blinking each time this button is pressed.



Characters are available in the order _ (space), alphabet (A–Z), symbols (✻ +, – . /), and numbers (0–9).

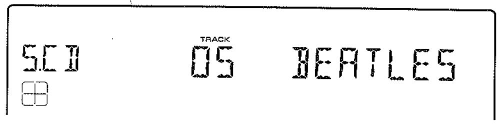
5 Entering all characters

Repeat steps 3 and 4.

6 Entering the title into memory

Press the number [7] button.

The entered title will be displayed and Title Enter mode will be cancelled.



About the disc title function

The disc title function allows you to enter a title for a disc into memory and have that title be displayed during disc playback (☛ P.52).
Disc playback can be more enjoyable by entering a title you like.

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- Titles are entered for each individual disc. Even if the disc is taken out of the player, information stored in that disc will not be lost.
- When using this unit in combination with a multi-CD player, it is possible to store disc titles for up to 100 discs.

⚠ **CAUTION**

To prevent accidents

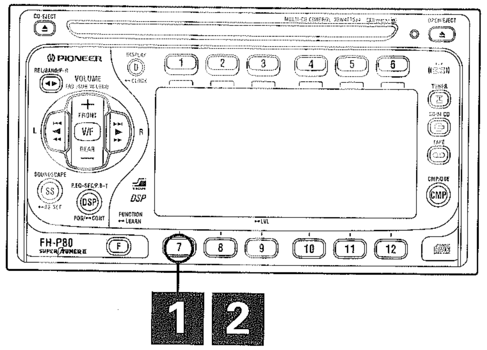
- You need to look carefully at the display to enter a title. To prevent accidents, do not enter titles while driving.

MEMO

- When you enter a character by mistake or wish to change a character, you can overwrite it by entering a new character.

DISPLAYING A DISC TITLE

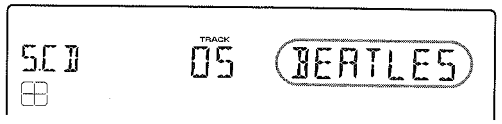
Displaying a registered disc title.


PIONEER
VOLUME
FRONT
V/F
REAR
SS
DSP
CMP
FH-P80
F
1
2
3
4
5
6
7
8
9
10
11
12
1
2

1 Displaying a disc title

Press the number [7] button.

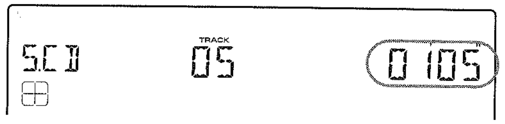
The disc title will appear.


S.C D
TRACK
05
BEATLES

2 Cancelling disc title display

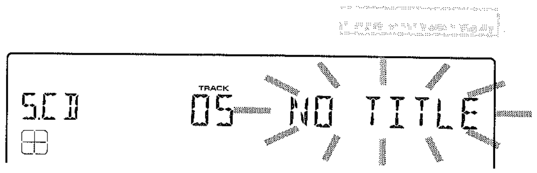
Press the number [7] button.

The display will return to showing elapsed playback time.


S.C D
TRACK
05
0 105

MEMO

- "NO TITLE" will blink in the display for 8 seconds if this operation is performed for a disc for which no disc title has been entered.


S.C D
TRACK
05
NO TITLE

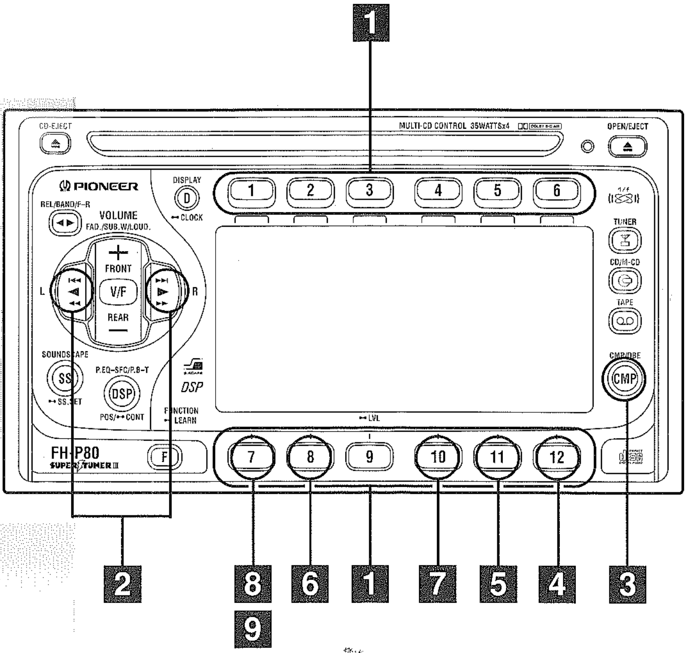
Listening to the *MULTI-CD PLAYER*

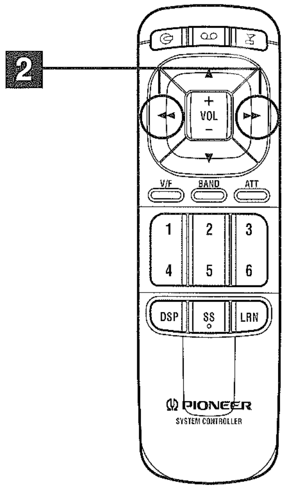
OPTION

CONTENTS

(70) Listening to the multi-CD player
(71) Selecting the multi-CD player
(72) **Disc search**
(73) Track search
(74) **Fast forward/reverse**
(75) Pause
(76) **Adjusting CD sound quality**
(78) Repeat playback
(80) Scan playback
(82) Random playback
(84) **ITS store**
(86) ITS playback
(88) ITS delete
(90) Entering a disc title
(93) **Displaying a disc title**
(94) Disc title list

You can also enjoy CDs played on a multi-CD player when a multi-CD player such as a CDX-P2000 is connected.


1
CD-EJECT
MULTI-CD CONTROL 35WATTSx4
OPEN/EJECT
PIONEER
DISPLAY
D
CLOCK
VOLUME
FRONT
V/F
REAR
L
R
SOUNDSCAPE
SS
P.EQ-SFC/P.B-T
DSP
POS/CONT
FUNCTION
LEARN
DSP
TUNER
CD/M-CD
TAPE
COMPRESSION
CMP
FH-P80
SUPER TUNER III
F
1
2
3
4
5
6
7
8
9
10
11
12
2
8
9
6
1
7
5
4
3


2
VOL
V/F
BAND
ATT
1
2
3
4
5
6
DSP
SS
LRN
PIONEER
SYSTEM CONTROLLER

1 Disc search

This feature allows you to select the disc you want to listen to from all those set in the magazine at a single touch.

2 Track search

This feature allows you to easily cue the current track or the next track.

3 Adjusting CD sound quality

This effect is only available when you have connected a multi-CD player (such as the CDX-P2000) which includes a digital compression funtion.
Such players include a COMP function for reducing the sound level differences by suppressing high level sounds and enhancing low level sounds. They also include a DBE function for enhancing low frequencies which often seem lacking inside a car.

4 Repeat playback

This feature allows you to listen to the same track repeatedly.
It is also possible to perform repeat playback at the disc level or multi-CD level.

5 Scan playback

This feature allows you to listen to just the first part of each track on a disc in succession.
It is also possible to listen to the first part of the first track on each disc set in the magazine.
This is useful when you want to know what is on a disc or are searching for a track you want to listen to.

6 Random playback

This feature plays back the disc leaving the order of track selection up to the microcontroller.
Enjoy listening to a familiar disk in a different track order.

7 ITS function

Store only those tracks you want played back.
This allows you to enjoy a disc by storing only those tracks you really like.

8 Disc title function

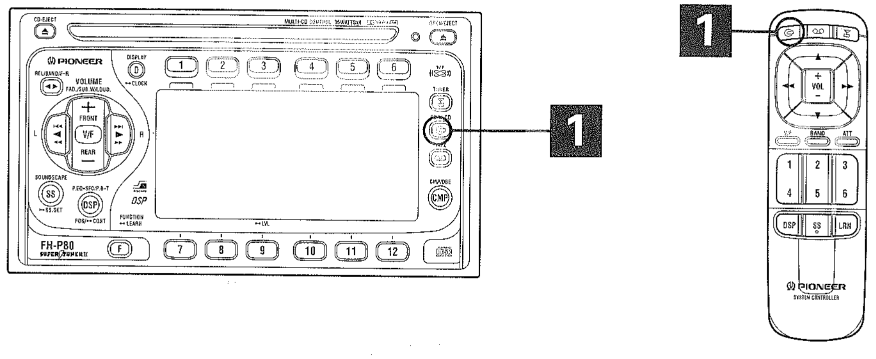
This feature allows you to enter a disc title and have that title be displayed when playing back that disc.
Disc playback can be more enjoyable by entering a title you like.

9 Disc title list display function

This feature allows you to display the registered disc titles for each disc one by one and select discs for playback by title.

LISTENING TO THE MULTI-CD PLAYER

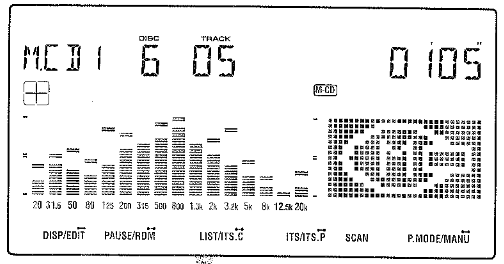
Listening to CDs by connecting a multi-CD player such as the CDX-P2000.


1
1
FH-P80
PIONEER

1 Switching the sound source to the multi-CD player

■ Press the ⊖ button. (☞ P.10)

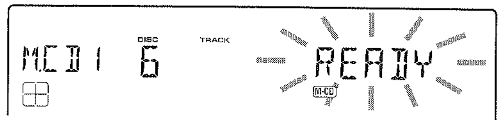
Disc playback will start.


MCD1
DISC
TRACK
6
05
0 105
M-CD
DISP/EDIT
PAUSE/ROM
LIST/ITS C
ITS/ITS P
SCAN
P.MODE/MANU

The current multi-CD player No., disc No., track No., and elapsed playback time will be displayed.

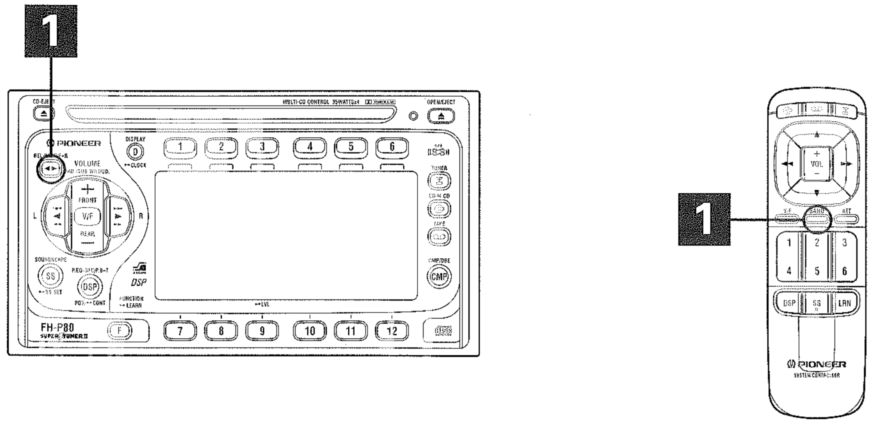
MEMO

- Disc playback can be stopped by switching sources (☞ P.10) or by pausing (☞ P.75).
- When disc playback is resumed, playback starts from near the location playback stopped.
- The multi-CD player may perform ready operations (checking whether a disc is present and reading disc information, etc.) when it is turned on or when the disc to be played is being switched. "READY" is displayed during ready operations.


MCD1
DISC
6
TRACK
READY
M-CD

SELECTING THE MULTI-CD PLAYER

Selecting the multi-CD player to playback when more than one multi-CD player is connected.


1
1
FH-P80
PIONEER

1 Selecting the multi-CD player

Press the ◀▶ button on the main unit or the [BAND] button on the remote controller.

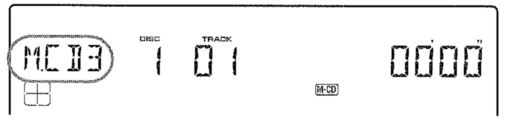
Each time the button is pressed, the multi-CD player will be switched as follows:

Example: When 4 players are connected

→ Multi-CD player 1 ▶ Multi-CD player 2
Multi-CD player 4 ◀ Multi-CD player 3 ◀

The multi-CD player No. will light.

Example: When multi-CD player 3 is selected

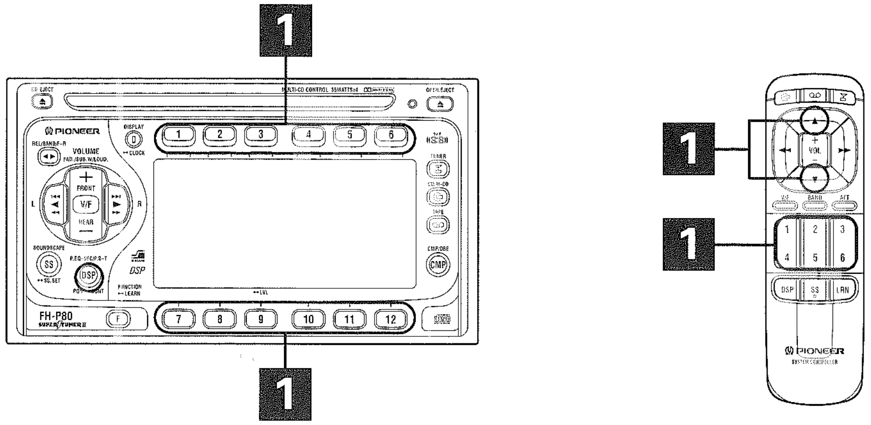

MCD3
DISC
TRACK
1
01
0000
M-CD

MEMO

- Up to 4 multi-CD players can be connected by using a CD-P44 multiple installation adaptor.
- This operation is not available when only one multi-CD player is connected.
- You cannot switch to a multi-CD player for which no magazine has been set.

DISC SEARCH

Selecting a disc to listen to.



1 Selecting a disc

- **When directly selecting a disc No.**
  - **Press one of the number [1] to [6] buttons when selecting a disc No. from 1 to 6.**
  - **Turn off the function indicator (☛ P.6) and press one of the number [7] to [12] buttons on the main unit or hold down one of the number [1] to [6] buttons on the remote controller for more than 2 seconds when selecting a disc No. from 7 to 12.**

    The selected disc No. will light and disc playback will start.

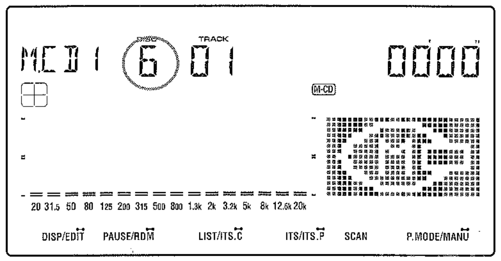
- **When selecting an adjacent disc No.**
  - **Press the ▲ button on the remote controller to go to a higher disc No.**

    The player will switch to the next higher disc No. each time the button is pressed.
  - **Press the ▼ button on the remote controller to go to a lower disc No.**

    The player will switch to the next lower disc No. each time the button is pressed.

    The selected disc No. will light and disc playback will start.

Example: When disc No. 6 is selected

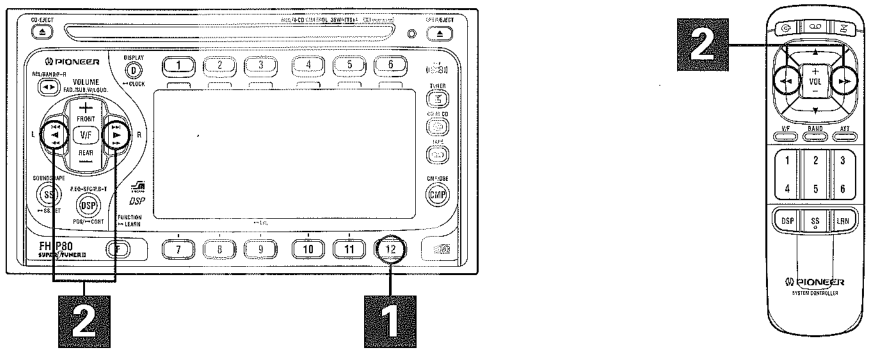


MEMO

- It takes a few seconds from when a disc No. is selected until disc playback starts in order to switch discs.

TRACK SEARCH

Cueing a track you want to listen to.



CHECK ● Check that the function indicator is lit. (☛ P.6)

1 Turning off the [MANU] indicator if it is on

Press the number [12] button for more than 2 seconds.

The [MANU] indicator will go out.

2 Selecting a track

- **Cue to a lower track No. by pressing the ◄ button on the main unit or the ◄◄ button on the remote controller.**

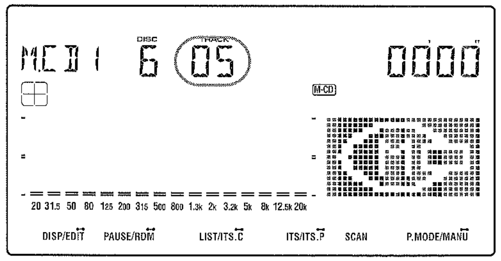
  The track No. will become smaller each time the button is pressed.

- **Cue to a higher track No. by pressing the ► button on the main unit or the ►► button on the remote controller.**

  The track No. will become larger each time the button is pressed.

The selected track No. will light and disc playback will start.

Example: when track No. 5 is selected

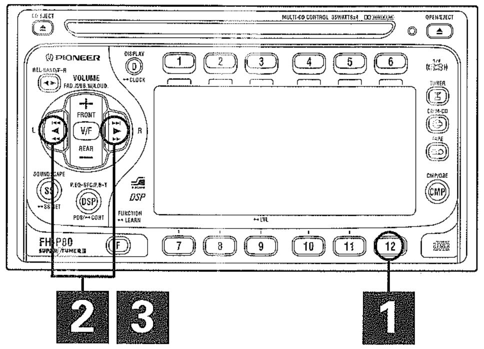


MEMO

- The track No. will change continuously if the button is held down.
- The remote controller is operable irrespective of whether the [MANU] indicator is lit or not.

FAST FORWARD/REVERSE

Finding the location you want to listen to.

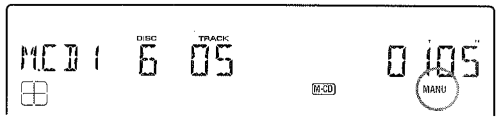


CHECK ● Check that the function indicator is lit. (☛ P.6)

1 Lighting the [MANU] indicator

Press the number [12] button for more than 2 seconds.

The [MANU] indicator will light.



2 Starting fast forward or reverse

- **Fast forward by holding down the ► button on the main unit.**

  Fast forwarding of the disc will start and you will hear a fast forward sound.

- **Reverse by holding down the ◄ button on the main unit.**

  Reversing of the disc will start and you will hear a reversing sound.

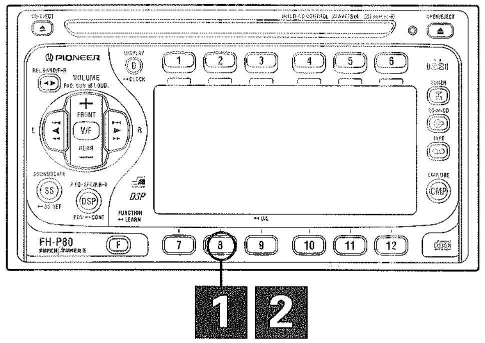
3 Ending fast forward/reverse

Release the button.

Disc playback will start once you release the button.

PAUSE

Pausing disc playback.

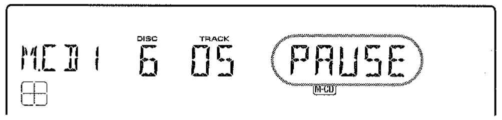


CHECK ● Check that the function indicator is lit. (☛ P.6)

1 Pausing disc playback

Press the number [8] button.

" PAUSE " will appear and disc playback will stop.



2 Resuming disc playback

Press the number [8] button.

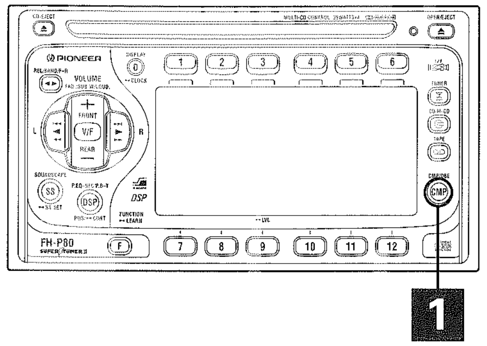
Disc playback will resume.

MEMO

- ● Functions other than fast forward/reverse can be used even during pause.

ADJUSTING CD SOUND QUALITY

When you connect a multi-CD player (such as the CDX-P2000) which includes a digital compression function, reduce the sound level differences between high and low level sounds, and enhance the low frequencies.



CHECK ● Check that the function indicator is lit. (☛ P.6)

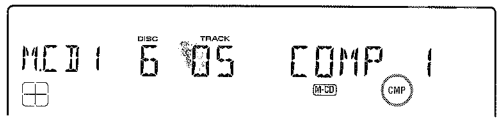
1 Switching sound quality adjustment functions

Press the [CMP] button.

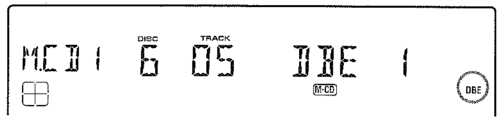
The sound quality adjustment function being used will change as shown below each time the button is pressed.

→ COMP OFF ▸ COMP 1 ▸ COMP 2 →
DBE 2 ◂ DBE 1 ◂ COMP OFF ←

The [CMP] indicator will light when "COMP 1" or "COMP 2" is selected.



The [DBE] indicator will light when "DBE 1" or "DBE 2" is selected.



There are two levels to both the COMP and DBE functions.

"COMP 2" is more effective than "COMP 1", and "DBE 2" is more effective than "DBE 1".

About the COMP function

"COMP" stands for COMPression.
The COMP function suppresses high level sounds and enhances low level sounds so as to reduce the overall level difference among sounds. This function is useful when there is difficalties in discerning low level sounds.

About the DBE function

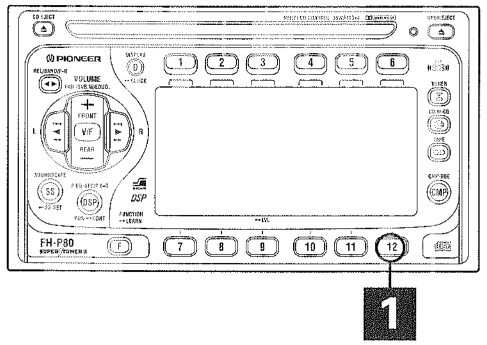
"DBE" stands for Dynamic Bass Emphasis.
The DBE function enhances low frequencies which often seem lacking inside a car.

MEMO

- The function display will be cancelled if no operation occurs for 3 seconds.
- This function is only available for multi-CD players (such as the CDX-P2000) which include a digital compression funceion.

REPEAT PLAYBACK

Listening to the same track, disc, or multi-CD repeatedly.



CHECK ● Check that the function indicator is lit. (☛ P.6)

1 Selecting the repeat playback mode

Press the number [12] button.

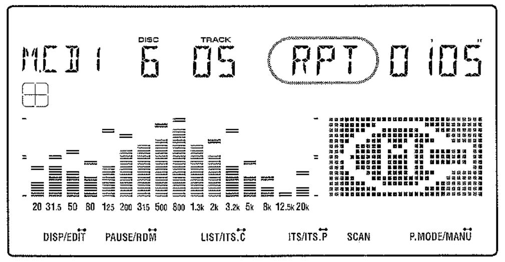
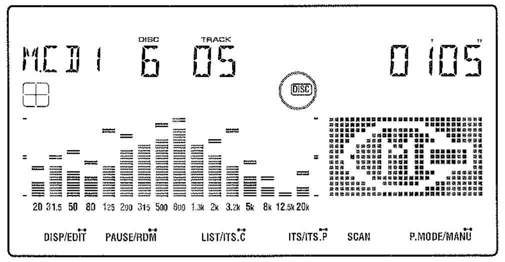
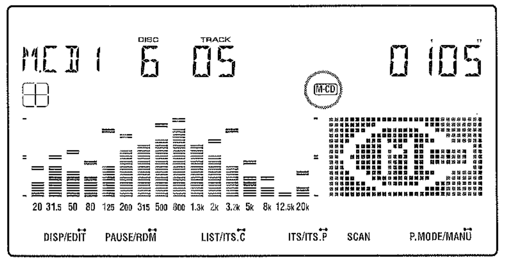
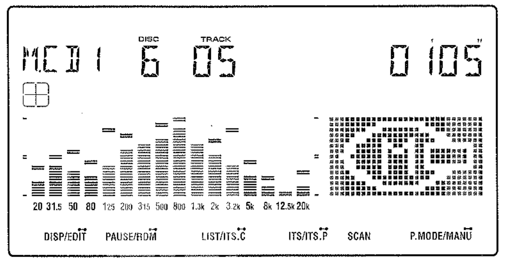
Each time the button is pressed, the repeat playback mode will be switched as follows:

→ Track repeat ▶ Disc repeat →

All repeat ◀ Multi-CD repeat ◀

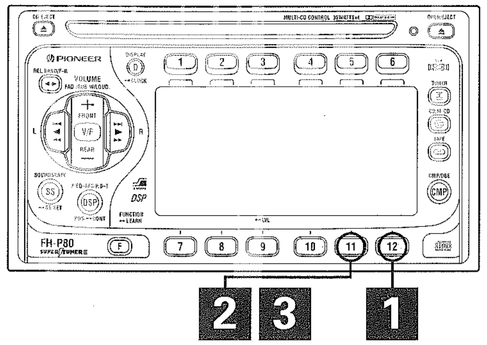
MEMO

- The all Repeat Playback mode can only be selected when more than one multi-CD player is connected to the system.

Repeat playback mode and corresponding display	Repeat playback operation
Track repeat  "RPT" will be displayed	Plays the current track repeatedly. • When you perform track search (☛ P.73) or fast forward/reverse (☛ P.74), the mode will change to disc repeat mode. • Switching the multi-CD player being played (☛ P.71) or disc search (☛ P.72) switches into the multi-CD repeat mode.
Disc repeat  The [DISC] indicator will light	Plays the current disc repeatedly. • Switching the multi-CD player being played (☛ P.71) or disc search (☛ P.72) switches into the multi-CD repeat mode.
Multi-CD repeat  The [M-CD] indicator will light	Plays all tracks on all discs loaded in the magazine in the current multi-CD player repeatedly.
All repeat  Indicators will not light	Plays all tracks on all discs loaded in all multi-CD players repeatedly.

SCAN PLAYBACK

Listening to just the first part of each track on a given disc, the first part of the first track on all discs in a given multi-CD player, or the first part of the first track on all discs in all multi-CD players in succession.



CHECK ● Check that the function indicator is lit. (☛ P.6)

1 Selecting the repeat playback mode

Press the number [12] button.

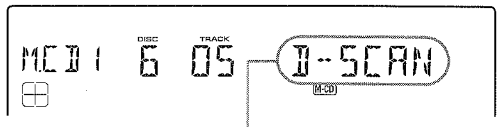
The tracks which are scanned during scan playback depend on the repeat playback mode currently selected (☛ P.78). Select the repeat playback mode in accordance with the type of scan playback you desire.

Repeat playback mode	Tracks scanned during track playback
Track repeat Disc repeat	All tracks on the disc currently being played (track scan)
Multi-CD repeat	The first track on all discs loaded in the multi-CD player currently playing (disc scan)
All repeat	The first track on all discs in all multi-CD players which are connected (disc scan)

2 Starting scan playback

Press the number [11] button.

"SCAN" will appear and the first 10 seconds of each track to be scanned will be played back.



For track scan, "T-SCAN" is displayed
For disk scan, "D-SCAN" is displayed

3 Ending scan playback

Press the number [11] button.

"SCAN" will go out, scan playback will be cancelled, and normal disc playback will resume.
You can now continue listening from the track where you pressed the button.

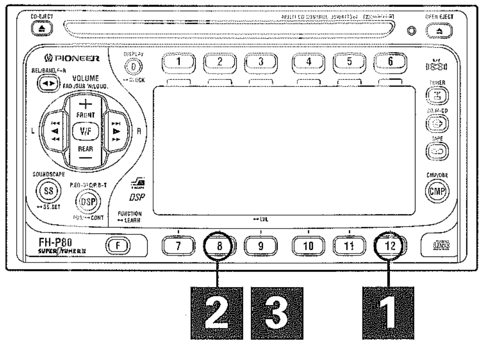
MEMO

- ● Scan playback is cancelled when the scan function returns to the first track which was scanned.
- ● If scan playback is selected during the Track Repeat Playback mode, the system will switch to the Disc Repeat Playback mode.

OPTION

RANDOM PLAYBACK

Listening to all tracks on a given disc, in a given multi-CD player, or in all multi-CD players randomly, leaving track selection up to the microcontroller.



CHECK ● **Check that the function indicator is lit.** (☛ P.6)

1 Selecting the repeat playback mode

Press the number [12] button.

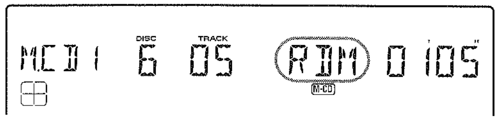
The tracks which are randomly played depend on the repeat playback mode currently selected (☛ P.78). Select the repeat playback mode in accordance with the type of random playback you desire.

Repeat playback mode	Tracks randomly played
Track repeat Disc repeat	All tracks on the disc currently being played
Multi-CD repeat	All tracks on all discs loaded in the multi-CD player currently playing
All repeat	All tracks on all discs in all multi-CD players which are connected

2 Starting random playback

Press the number [8] button for more than 2 seconds.

"RDM" will appear and random playback will start.



Once playback of the current track ends, the microcontroller inside the multi-CD player will select the next track.

3 Ending random playback

Press the number [8] button for more than 2 seconds.

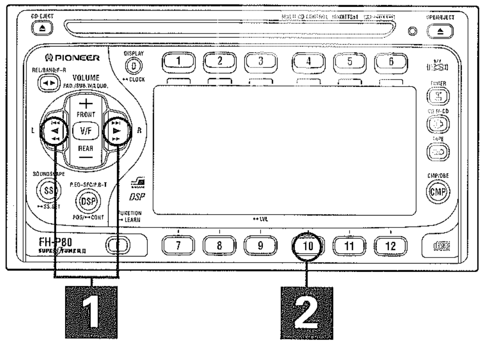
"RDM" will go out and normal disc playback will resume.

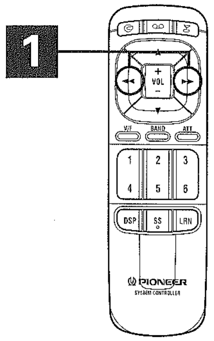
MEMO

- ● If random playback is selected during Track Repeat Playback mode, the system will switch to Disc Repeat Playback mode.

ITS STORE

Storing only desired tracks for playback.





CHECK ● Check that the function indicator is lit. (☛ P.6)

1 Finding a track to be stored

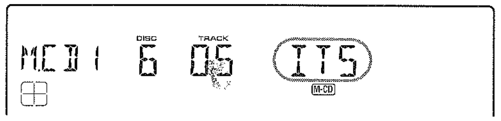
Play the disc.

Use track search (☛ P.73) to find the desired track.

2 Storing a track

Press the number [10] button.

"ITS" will appear for 3 seconds.



About the ITS function

ITS stands for Instant Track Selection.
The ITS function allows you to store just those tracks you want to listen to later playback (☛ P.86). It is also possible to delete a track you no longer want stored.
This allows you to enjoy playing discs by storing only those tracks you want to listen to.

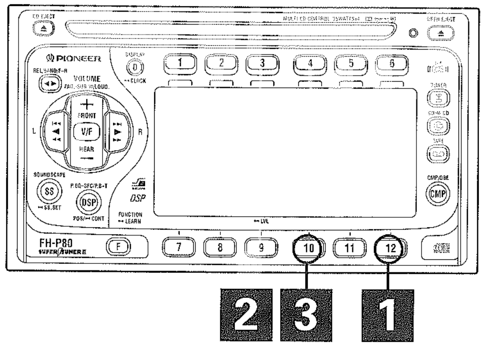
- Up to 99 tracks can be stored per disc.
- Track storage accomodates up to 100 discs, combined with disc titles.(☛ P.63/90)
- When information for more than 100 discs has been stored, the oldest disc information is thrown out (the disc not played the longest since storage) and new disc information is stored in its place.
- Track store is performed for each separate disc. Even if the disc is taken out of the player, information for that disc will not be lost.
- ITS playback of a disc for which ITS information has been stored is not possible when that disc is loaded in the built-in CD player.
- The number of discs for storage remains the same even when two or more multi-CD players are connected.

MEMO

- ITS store can also be performed during scan playback and random playback as long as playback is in a mode other than ITS playback.

ITS PLAYBACK

Listening only to stored tracks.



CHECK ● Check that the function indicator is lit. (☛ P.6)

1 Selecting the repeat playback mode

Press the number [12] button.

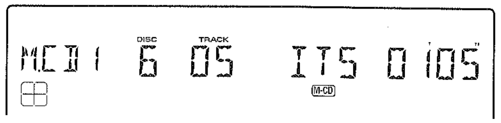
The tracks for which ITS playback is performed depend on the repeat playback mode currently selected (☛ P.78). Select the repeat playback mode in accordance with the type of ITS playback you desire.

Repeat playback mode	Tracks for which ITS playback is performed
Track repeat Disc repeat	Stored tracks on the disc currently being played
Multi-CD repeat	Stored tracks on all discs loaded in the multi-CD player currently playing
All repeat	Stored tracks on all discs in all multi-CD players which are connected

2 Starting ITS playback

Press the number [10] button for more than 2 seconds.

"ITS" will appear and ITS playback will start.



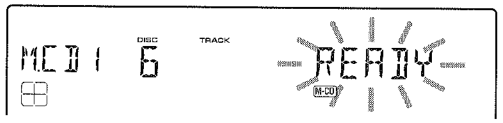
3 Ending ITS playback

Press the number [10] button for more than 2 seconds.

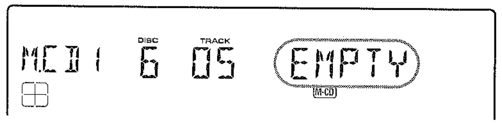
"ITS" will go out and normal disc playback will resume.

MEMO

- ● In order to perform ITS playback, the multi-CD player needs to perform preparatory operations (checking whether a disc is present, reading disc information, etc.).
  Although ready operations are performed when a magazine is set, attempting disc playback in mid-operation will cause ready operations to halt. If ITS playback is attempted at this time, ready operations will resume and "READY" will be displayed.



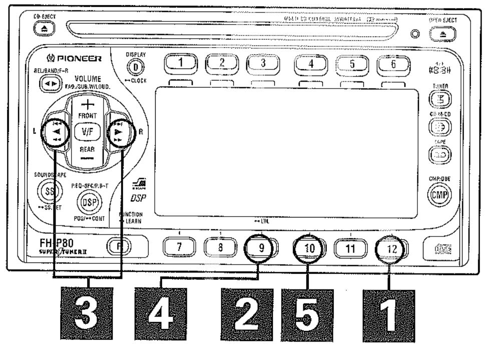
- ● If ITS playback is selected during Track Repeat Playback mode, the system will switch to the Disc Repeat Playback mode.
- ● If multi-CD player select (☛ P.71), disc search (☛ P.72), track search (☛ P.73), scan playback (☛ P.80), or random playback (☛ P.82) are selected during ITS playback operations will only cover tracks subject to ITS playback.
- ● If there are no tracks within the range of the selected repeat playback mode for which ITS playback is possible, "EMPTY" will be displayed for 3 seconds and ITS playback will not be performed.

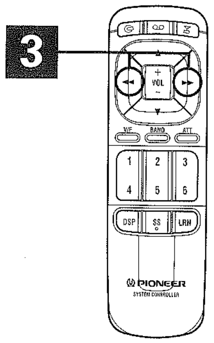


- ● If scan playback is selected during ITS playback, "ITS-SCAN" will be displayed, and stored tracks will be scanned.
- ● If scan playback is selected when the repeat playback mode is the Multi-CD Repeat mode or All Repeat mode, the operation will cover all stored tracks in the magazine or magazines.
- ● If random playback is selected during ITS playback, "ITS-RDM" will be displayed, and random playback of stored tracks will be performed.

ITS DELETE

Deletes stored tracks.





CHECK ● Check that the function indicator is lit. (☛ P.6)

When deleting just one track

1 Selecting the repeat playback mode

Press the number [12] button.

Select the repeat playback mode (☛ P.78) such that any tracks you wish to delete from ITS memory are covered by ITS playback.

2 Starting ITS playback

Press the number [10] button for more than 2 seconds.

"ITS" will appear and ITS playback (☛ P.86) will begin.

3 Searching for the track you want to delete

Perform disc playback.

Find the track to be deleted using track search (☛ P.73).

4 Deleting the track from ITS memory

Press the number [9] button for more than 2 seconds.

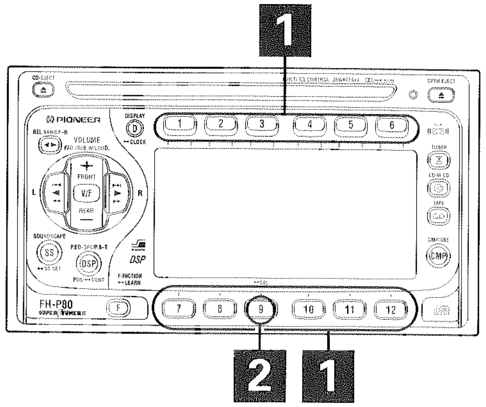
The track currently being played will be deleted from ITS memory and the next track stored will be played.

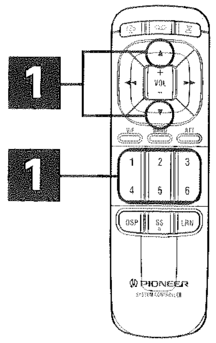
5 Ending ITS delete

Press the number [10] button for more than 2 seconds.

"ITS" will go out and ITS playback will be cancelled.
Then normal disc playback will resume.

ITS DELETE - CONTINUED





When deleting memory for an entire disc

1 Finding the disc to be deleted

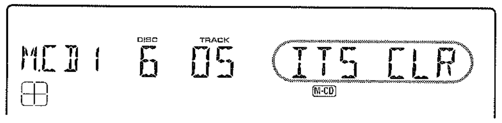
Play the disc.

Use disc search (☛ P.72) to find the desired disc.

2 Deleting the disc from ITS memory

Press the number [9] button for more than 2 seconds.

"ITS CLR" will be displayed for 3 seconds and the disc currently being played will be deleted from ITS memory.



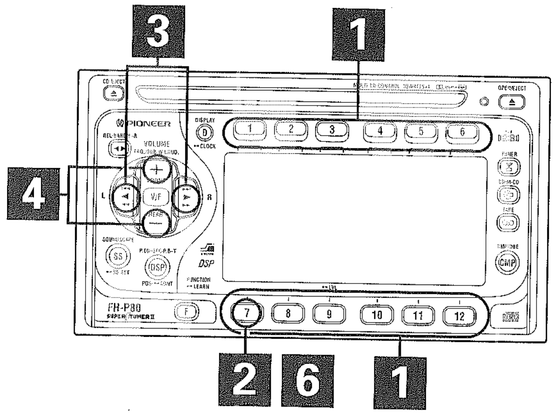
Disc playback will continue.

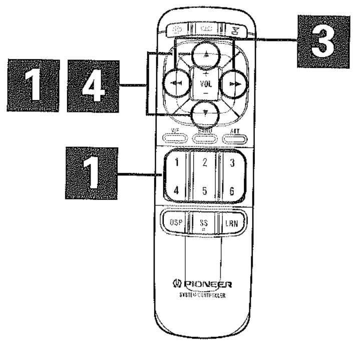
MEMO

- If there are no more tracks covered by ITS playback due to using ITS delete, "ITS" display is removed and ITS playback will be cancelled.

ENTERING A DISC TITLE

Storing a title in memory for the current disc.





CHECK ● Check that the function indicator is lit. (☛ P.6)

1 Finding the disc whose title you wish to enter

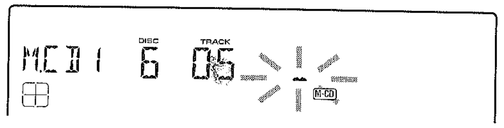
Play the disc.

Use disc search (☛ P.72) to find the desired disc.

2 Selecting Ttitle Enter mode

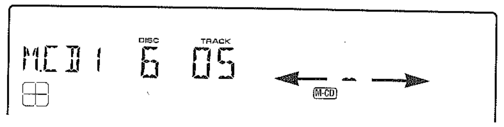
Press the number [7] button for more than 2 seconds.

"_" will blink in the display and the unit will enter Title Enter mode



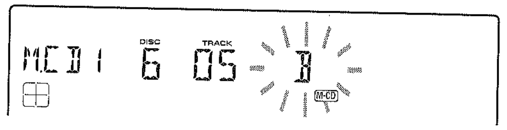
3 Selecting the input position

- **Move left by pressing the ◄ button on the main unit or the ◄◄ button on the remote controller.**
  The blinking underscore will move left each time the button is pressed.
- **Move right by pressing the ► button on the main unit or the ►► button on the remote controller.**
  The blinking underscore will move right each time the button is pressed.



4 Selecting the character to input

- **Select the character in the forward direction by pressing the [+] button on the main unit or the ▲ button on the remote controller.**
  Each character in order will be displayed blinking each time this button is pressed.
- **Select the character in the reverse direction by pressing the [–] button on the main unit or the ▼ button on the remote controller.**
  Each character in reverse order will be displayed blinking each time this button is pressed.



Characters are available in the order _ (space), alphabet (A–Z), symbols (✻ +, – . /), and numbers (0–9).

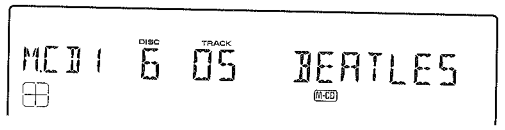
5 Entering all characters

Repeat steps 3 and 4.

6 Entering the title into memory

Press the number [7] button.

The entered title will be displayed and Title Enter mode will be cancelled.



CAUTION

To prevent accidents

- ● You need to look carefully at the display to enter a title. To prevent accidents, do not enter titles while driving.

MEMO

- ● When you enter a character by mistake or wish to change a character, you can overwrite it by entering a new character.

ENTERING A DISC TITLE - CONTINUED

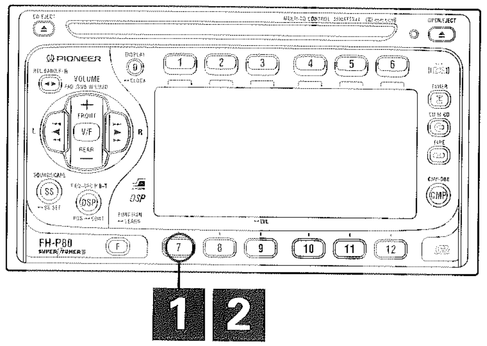
About the disc title function

The disc title function allows you to enter a title for a disc into memory and have that title be displayed during disc playback (☛ P.93).
It is also possible to display a list of disc titles (☛ P.94) or to select a disc for playback from this list (☛ P.95).
Disc playback can be more enjoyable by entering a title you like.

- A disc title of up to 8 characters can be entered per disc.
- The multi-CD player can store up to 100 disc titles, combined with disc titles for built-in CD playres (☛ P.63) and tracks storage for ITS information (☛ P.84)
- When information for more than 100 discs have been stored, the oldest disc information is thrown out (the disc not played the longest since stroage) and a new disc title is stored in its place.
- Titles are stored for each individual disc. Even if the disc is taken out of the player, information stored for that disc will not be lost.
- The number of disks for which storage is possible does not increase even if more than two multi-CD players are connected to the system.

DISPLAYING A DISC TITLE

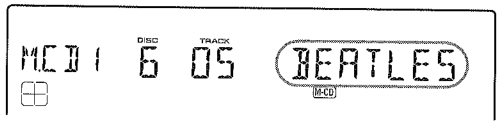
Displaying a registered disc title.



CHECK ● Check that the function indicator is lit. (☛ P.6)

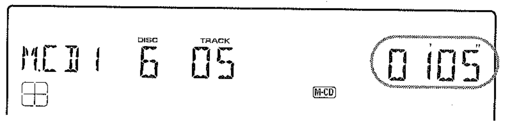
1 Displaying a disc title

Press the number [7] button.
The disc title will appear.



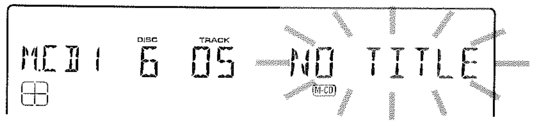
2 Cancelling disc title display

Press the number [7] button.
The display will return to showing elapsed playback time.



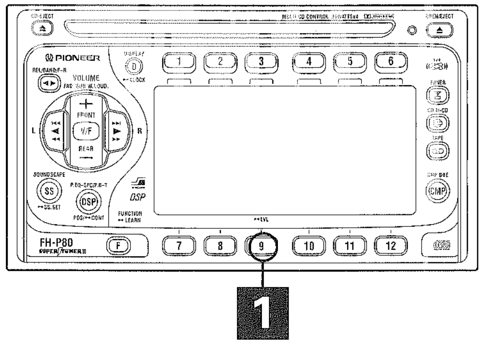
MEMO

- "NO TITLE" will blink in the display for 8 seconds if this operation is performed for a disc for which no disc title has been entered.



DISC TITLE LIST

This feature allows you to display stored disc titles one after the other and select discs for playback from tthe list.



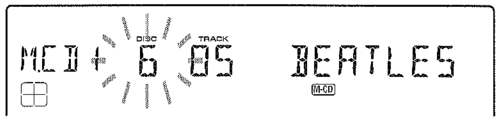
CHECK ● Check that the function indicator is lit. (☛ P.6)

When displaying the list

1 Displaying the list

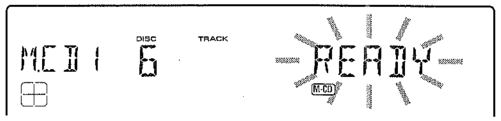
Press the number [9] button.

Each time the button is pressed, the titles of discs loaded in the multi-CD players connected will be displayed in the order loaded.

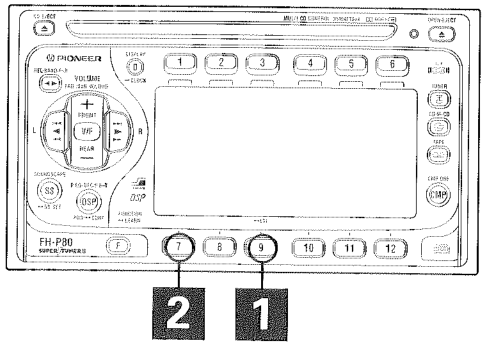


MEMO

- List display will be cancelled if no operation occurs within 8 seconds.
- Nothing is displayed on the disc title display for discs for which no disc title has been entered.
- In order to perform list display of disc titles, the multi-CD player needs to perform preparatory operations (checking whether a disc is present and reading disc information, etc.).
  Although ready operations are performed when a magazine is set, attempting disc playback in mid-operation will cause ready operations to halt. If disc title list display is attempted at this time, ready operations will resume and "READY" will be displayed.



DISC TITLE LIST - CONTINUED

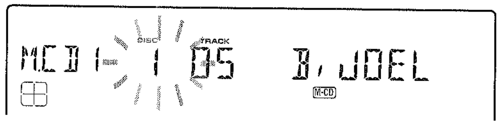


When playing a disc selected from the list display

1 Finding a disc you want to listen to by its disc title

Press the number [9] button.

Each time the button is pressed, the titles of discs loaded in the multi-CD players connected will be displayed in the order loaded.



2 Playing the disc

Press the number [7] button.

The disc whose title is currently displayed will be played.

Using *SOUNDSCAPE*

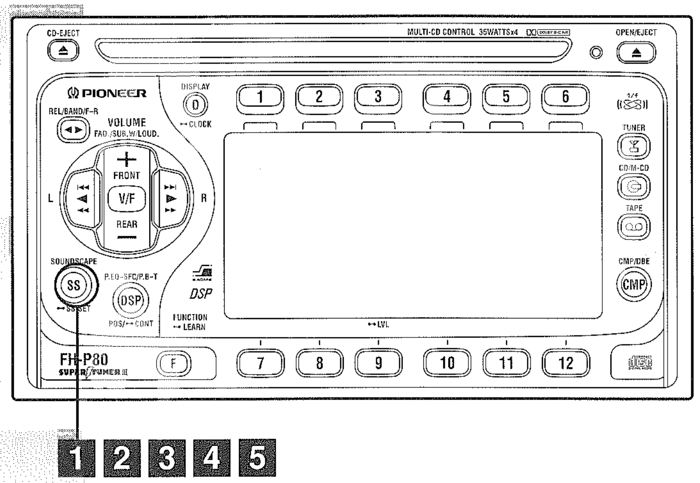
CONTENTS

98 Using soundscape

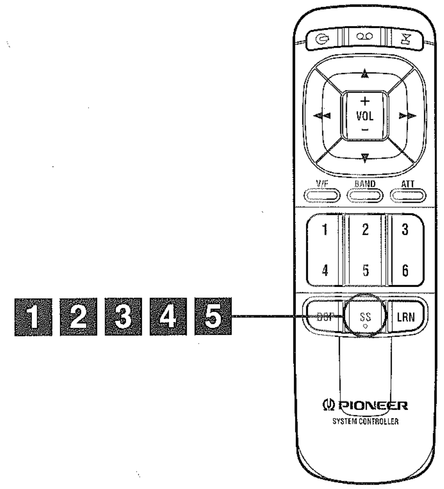
102 Adjusting subsource sound volume

104 Setting the sound effects for the music mode/blank mode

106 Setting the sound effects for program mode (for multi-CD players)



CD-EJECT
MULTI-CD CONTROL 35WATTSx4
OPEN/EJECT
PIONEER
DISPLAY
CLOCK
VOLUME
FRONT
V/F
REAR
L
R
1
2
3
4
5
6
TUNER
TAPE
CMP/DBE
CMP
SOUNDSCAPE
SS
DSP
FUNCTION
LEARN
FH-P80
F
7
8
9
10
11
12
1 2 3 4 5



1 2 3 4 5
VOL
V/F
BAND
ATT
1
2
3
4
5
6
DSP
SS
LRN
PIONEER
SYSTEM CONTROLLER

Soundscape function

The Soundscape function allows two sources to be played simultaneously.
By playing the main source (music) and subsource (sound effects) simultaneously, it becomes as if you were in the place represented by the sound effects.
"Music plus sound effects" allows you to enjoy a new sound field with increased realism.

1 Soundscape playback

It is possible to physically experience a whole new location by playing back two sources at once (music and sound effects).
Through combined use of a multi-CD player, it is possible to insert sound effects into a track played on the multi-CD player or to insert sound effects in the gaps (blank space) between tracks.

- Only the built-in CD player can be used for the subsource.

2 Adjusting subsource sound volume

It is possible to adjust the volume of just the subsource (sound effects) while leaving the volume of the main source (music) alone.

3 Setting sound effects in Music mode

It is possible to select and store a sound effect (track) to be played together with the main source.

4 Setting sound effects in the Blank mode

It is possible to select and store a sound effect (track) to be played in the gap between tracks.

OPTION

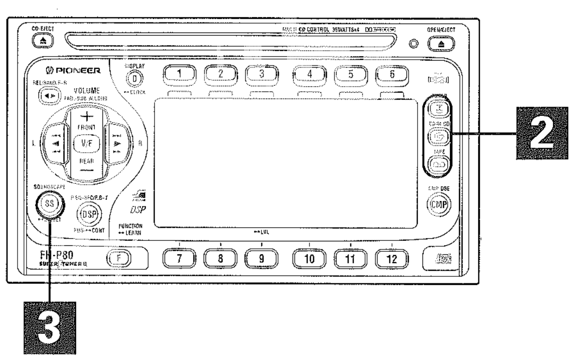
5 Setting sound effects in the Program mode

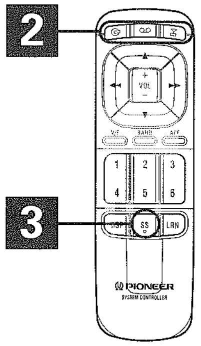
multi CD player

It is possible to select and store a sound effect (track) to be played with each track of the main source.

USING SOUNDSCAPE

Simultaneously playing two sources (music and sound effects).


2
3
PIONEER
SS
FH-P80


2
3
SS
PIONEER

1 Preparing the subsource (sound effects)

Load the disc to be used for the subsource in the built-in CD player and check the audio (☞ P.52).

2 Selecting the main source (music)

Press the ⊖ button or ꝏ button.

The system will switch to the source to be used as the main source. You can use the tape deck, multi-CD player or AUX(external device) as the main source.

About the subsource disc

We recommend the following discs for use as the subsource (built-in CD player) for fuller enjoyment of the Soundscape feature.

The disc included with the system
The accompanying disc has been made for use as a subsource when using Soundscape. Use this disc as the subsource.

Commercially available discs
We recommend discs on which sound effects such as ocean waves have been recorded. Discs containing music are better suited for use as the main source than as the subsource.

MEMO

- When an external device (such as video or DAT) is connected (☞ P.141), it is also possible to use that device (AUX source) as the main source. In this case, Soundscape can only be set to Music mode.
- Soundscape playback is not cancelled even by switching to the main source.
- Soundscape playbacke can be cancelled by ejecting the disc from the subsource (built-in CD player) during Soundscape playback.
  Playback of the main source will continue uninterrupted.
- For details on Soundscape playback in all modes. (☞ P.100)
- Switch the Soundscape mode while the mode name is blinking (in 3 seconds).

3 Selecting the Soundscape mode

■ Press the [SS] button when the main source is the tape deck.

Each time the button is pressed, the Soundscape mode will be switched as follows:

→ Music mode ▶ Blank mode ▶ OFF ┐

■ Press the [SS] button when the main source is the multi-CD player.

Each time the button is pressed, the Soundscape mode will be switched as follows:

→ Music mode ▶ Blank mode ┐
OFF ◀ Program mode ◀

■ Press the [SS] button when the main source is the AUX(external device).

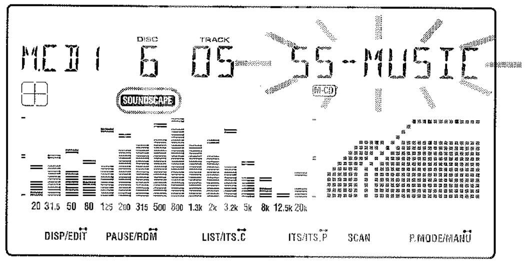
Each time the button is pressed, the Soundscape mode will be switched as follows:

→ Music mode ▶ OFF ┐

When a Soundscape mode is selected, the [SOUNDSCAPE] indicator will light and soundscape playback will start.

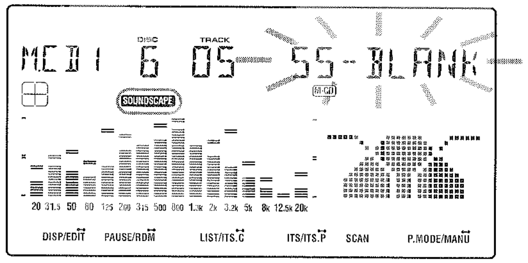
Music mode

Example: When the main source is the multi-CD player


MCD1
DISC
6
TRACK
05
SS-MUSIC
M-CD
SOUNDSCAPE
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
DISP/EDIT
PAUSE/RDM
LIST/ITS.C
ITS/ITS.P
SCAN
P.MODE/MANU

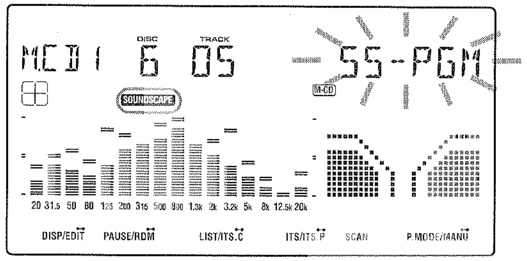
Blank mode

Example: When the main source is the multi-CD player


MCD1
DISC
6
TRACK
05
SS-BLANK
M-CD
SOUNDSCAPE
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
DISP/EDIT
PAUSE/RDM
LIST/ITS.C
ITS/ITS.P
SCAN
P.MODE/MANU

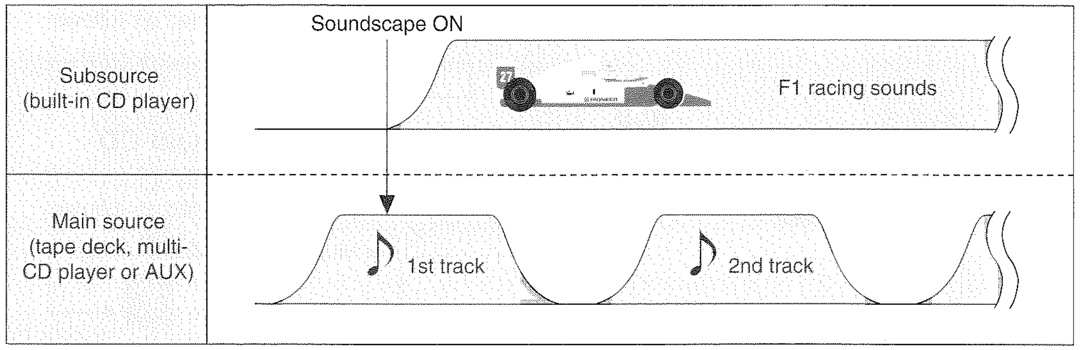
Program mode

Example: When the main source is the multi-CD player


MCD1
DISC
6
TRACK
05
SS-PGM
M-CD
SOUNDSCAPE
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
DISP/EDIT
PAUSE/RDM
LIST/ITS.C
ITS/ITS.P
SCAN
P.MODE/MANU

Soundscape playback in the Music mode

Subsource audio is played back while you are listening to the main source. A single preset sound effects track is played back repeatedly as the subsource regardless of the main source.

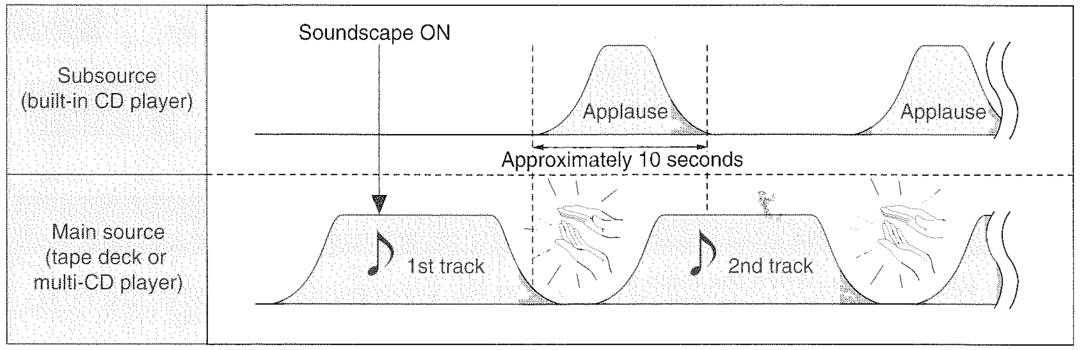

Soundscape ON
Subsource (built-in CD player)
F1 racing sounds
Main source (tape deck, multi-CD player or AUX)
1st track
2nd track

MEMO

- Track No.1 is the initial setting for the sound effect to be played as the subsource.
- For details on setting the sound effect. (☛ P.104)

Soundscape playback in Blank mode

The subsource is played for about 10 seconds during the gap between tracks (blank space) of the main source. The subsource sound effect begins to fade in when the main source falls to a certain level and then fades out as the main source level rises.

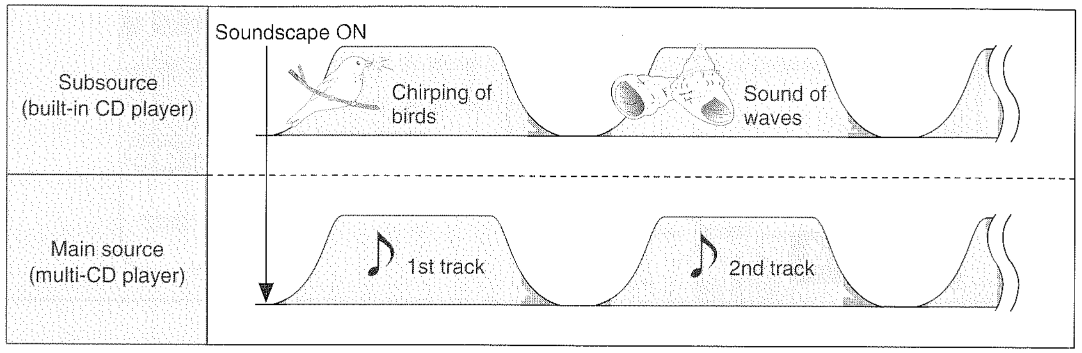

Soundscape ON
Subsource (built-in CD player)
Applause
Applause
Approximately 10 seconds
Main source (tape deck or multi-CD player)
1st track
2nd track

MEMO

- Subsource sound effects may be played in the following types of situations.
  - When long gaps such as in conversations occur in the main source track.
  - When very faint sounds are included in the main source track.
  - When performing track search. (☛ P.73)
- If the gap between tracks of the main source is short, the subsource sound effect may not be played at all.
- Track No.1 is the initial setting for the sound effect to be played as the subsource.
- For details on setting the sound effect. (☛ P.104)

Soundscape playback in the Program mode

Subsource playback is timed together with the playback of each track of the main source. Subsource sound effects start when the main source starts playing, and sound effects end when the main source stops playing. A different subsource sound effects track can be set separately for each main source track.

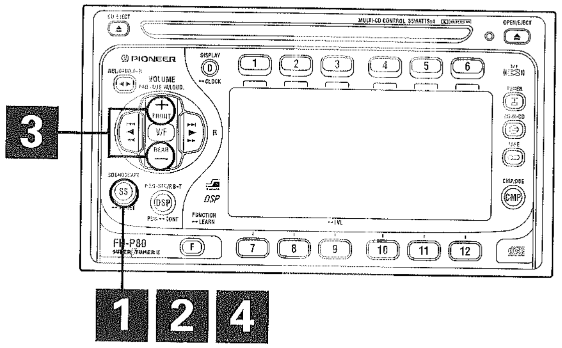

Soundscape ON
Subsource (built-in CD player)
Chirping of birds
Sound of waves
Main source (multi-CD player)
1st track
2nd track

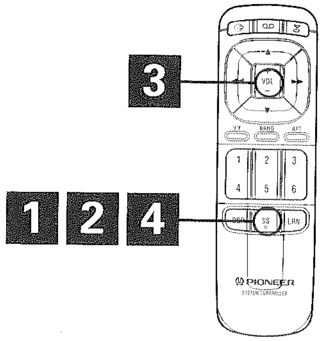
MEMO

- If this mode is selected during scan playback (☛ P.80) or ITS playback (☛ P.86), the main source may not play from the beginning of the track.
- Track No.1 is the initial setting for the sound effect to be played as the subsource for all main source tracks.
- For details on setting the sound effect. (☛ P.106)

ADJUSTING SUBSOURCE SOUND VOLUME

Adjusting the sound volume of the subsource (sound effects).



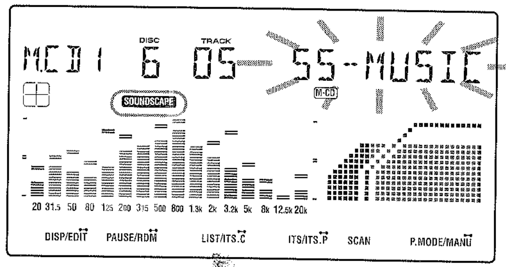


1 Selecting the Soundscape mode

Press the [SS] button.

The [SOUNDSCAPE] indicator will light and Soundscape playback will start.

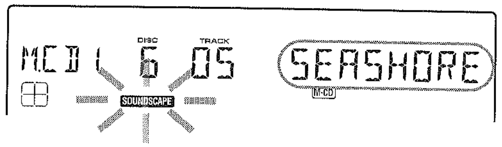
Example: When the Music mode is selected


MCD1
DISC
6
TRACK
05
SS-MUSIC
SOUNDSCAPE
M-CD
DISP/EDIT
PAUSE/RDM
LIST/ITS.C
ITS/ITS.P
SCAN
P.MODE/MANU

2 Selecting the setting mode

Press the [SS] button for more than 2 seconds.

The [SOUNDSCAPE] indicator will go from lit to blinking and the system will enter the Soundscape setting mode.


MCD1
DISC
6
TRACK
05
SEASHORE
SOUNDSCAPE
M-CD

A sound effect name will be shown in the display.

3 Adjusting subsource volume

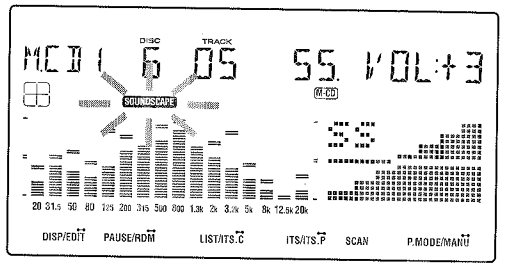
■ Press the [+] button to increase the volume.

Subsource volume will increase each time the button is pressed.

■ Press the [–] button to decrease the volume.

Subsource volume will decrease each time the button is pressed.

Subsource volume will be shown in the display.

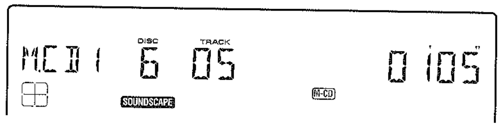

MCD1
DISC
6
TRACK
05
SS VOL+3
SOUNDSCAPE
M-CD
DISP/EDIT
PAUSE/RDM
LIST/ITS.C
ITS/ITS.P
SCAN
P.MODE/MANU

Volume can be set to one of 7 levels.

4 Ending subsource volume adjustment

Press the [SS] button.

The [SOUNDSCAPE] indicator will go from blinking to lit and Soundscape setting mode will be cancelled.


MCD1
DISC
6
TRACK
05
0'05
SOUNDSCAPE
M-CD

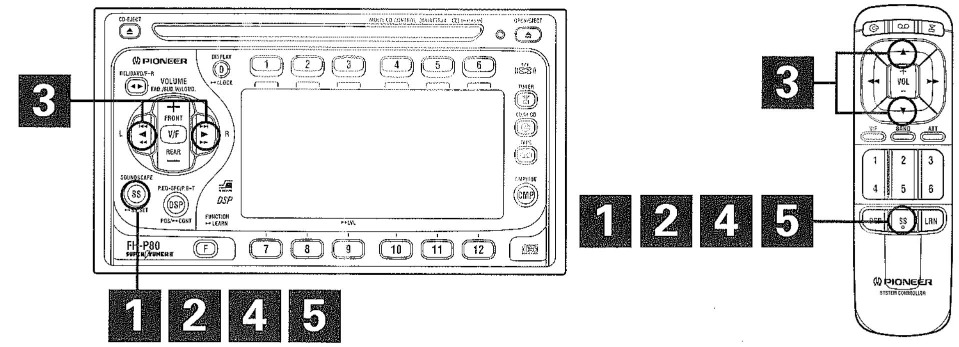
Soundscape playback will start using the volume level selected.

MEMO

- ● Subsource volume can be adjusted in the operation 1 by selecting any Soundscape mode. The same volume is then set for all modes.
- ● When using a commercially available disc for the subsource, a track No. will appear in the display in place of sound effect name.

SETTING THE SOUND EFFECTS FOR THE MUSIC MODE/BLANK MODE

Selecting and storing the sound effect (track) to be played together with the main source or to be played between main source tracks.


3
1 2 4 5
3
1 2 4 5
PIONEER
VOLUME
SS
DSP
FH-P80
VOL
SS
LRN

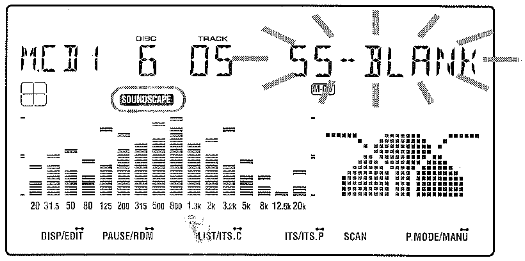
1 Selecting the Soundscape mode

Press the [SS] button.

Press the button to select Music mode or Blank mode (☞ P.98).

The [SOUNDSCAPE] indicator will light and Soundscape playback will start.

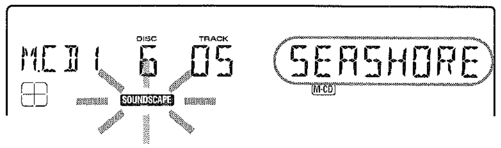
Example: When the Blank mode is selected


MCD 1
DISC
TRACK
6
05
SS-BLANK
SOUNDSCAPE
M-CD
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
DISP/EDIT
PAUSE/RDM
LIST/ITS.C
ITS/ITS.P
SCAN
P.MODE/MANU

2 Selecting the setting mode

Press the [SS] button for more than 2 seconds.

The [SOUNDSCAPE] indicator will go from lit to blinking and the system will enter the Soundscape setting mode.


MCD 1
DISC
TRACK
6
05
SEASHORE
SOUNDSCAPE
M-CD

A sound effect name will be shown in the display.

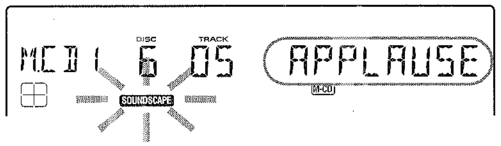
3 Selecting the subsource sound effect

- **When selecting in the forward direction, press the ► button on the main unit or the ▲ button on the remote controller.**

  Each time the button is pressed, a sound effect name will be displayed in order (or the track No. will go up).

- **When selecting in the reverse direction, press the ◄ button on the main unit or the ▼ button on the remote controller.**

  Each time the button is pressed, a sound effect name will be displayed in reverse order (or the track No. will go down).


MCD 1
DISC
TRACK
6
05
APPLAUSE
SOUNDSCAPE
M-CD

4 Storing the selected sound effect

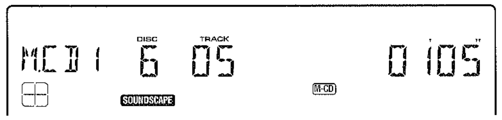
Press the [SS] button for more than 2 seconds.

A beep will be emitted and the selected sound effect will be stored.

5 Ending sound effect settings

Press the [SS] button.

The [SOUNDSCAPE] indicator will go from blinking to lit and Soundscape setting mode will be cancelled.


MCD 1
DISC
TRACK
6
05
SOUNDSCAPE
M-CD
0 105

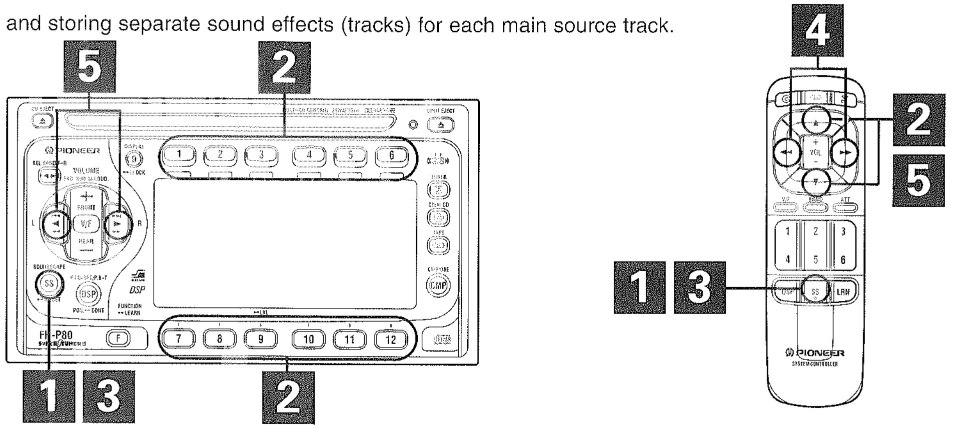
Soundscape playback will start using the sound effect selected.

MEMO

- When using a commercially available disc for the subsource, a track No. will appear in the display in place of sound effect name.
- The sound effect played as the subsource can be set separately for each Soundscape mode.

SETTING THE SOUND EFFECTS FOR PROGRAM MODE

Selecting and storing separate sound effects (tracks) for each main source track.

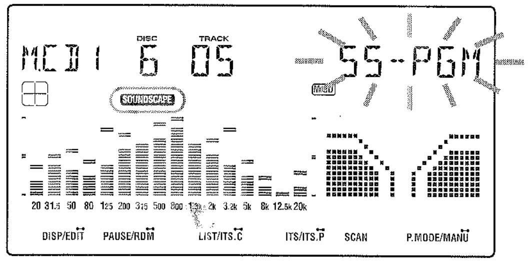


1 Selecting the Soundscape mode

Press the [SS] button.

Press the button to select the Program mode (☞ P.98).

The [SOUNDSCAPE] indicator will light and Soundscape playback will start.



2 Finding the main source disc for which you want to set sound effects

Play the disc for which you want to set sound effects.

Find the disc using disc search (☞ P.72) or any other method.

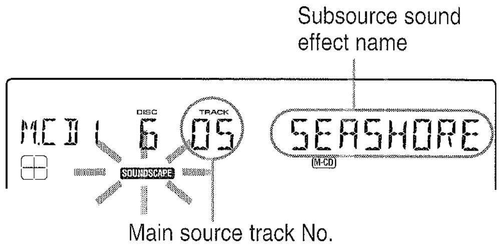
MEMO

- When using a commercially available disc for the subsource, a track No. will appear in the display in place of sound effect name.

3 Selecting the setting mode

Press the [SS] button for more than 2 seconds.

The [SOUNDSCAPE] indicator will go from lit to blinking and the system will enter the Soundscape setting mode.



A sound effect name and main source track No. will be shown in the display.

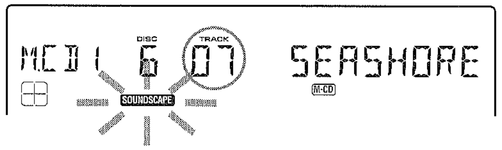
4 Finding the main source track for which you want to set a sound effect

- **To go to the next lower track No., press the ◀◀ button on the remote controller.**

  The track No. will go down each time the button is pressed.

- **To go to the next higher track No., press the ▶▶ button on the remote controller.**

  The track No. will up each time the button is pressed.



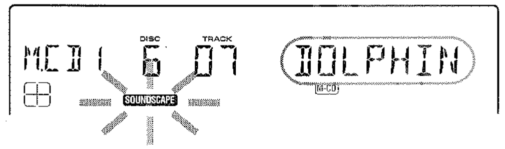
5 Selecting the subsource sound effect

- **When selecting in the forward direction, press the ▶ button on the main unit or the ▲ button on the remote controller.**

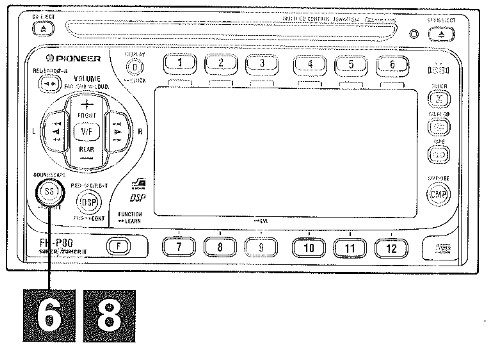
  Each time the button is pressed, a sound effect name will be displayed in order (or the track No. will go up).

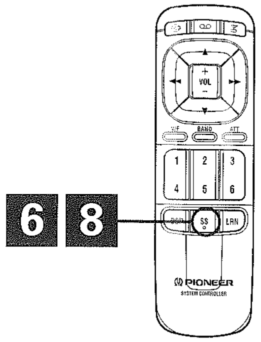
- **When selecting in the reverse direction, press the ◀ button on the main unit or the ▼ button on the remote controller.**

  Each time the button is pressed, a sound effect name will be displayed in reverse order (or the track No. will go down).



SETTING THE SOUND EFFECTS FOR PROGRAM MODE - CONTINUED





6 Storing the selected sound effect

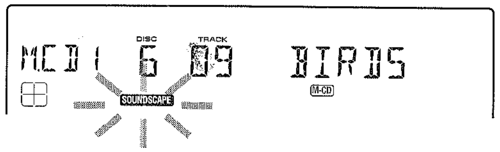
Press the [SS] button for more than 2 seconds.

A beep will be emitted and the selected sound effect will be stored.

7 Setting a sound effect for another main source track

Repeat steps 4 through 6.

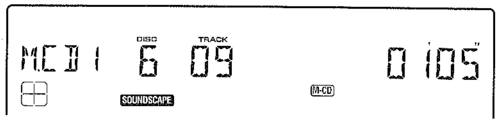
It is possible to set a different sound effect for each separate track.



8 Ending sound effect settings

Press the [SS] button.

The [SOUNDSCAPE] indicator will go from blinking to lit and the Soundscape setting mode will be cancelled.



Soundscape playback will start using the sound effect selected.

9 Setting sound effects for a different main source disc

Repeat steps 2 through 8.

It is possible to set sound effects for the separate tracks of other discs.

MEMO

- You can set your favorite sound effects for track No. 1 through No. 16 of the disc to be played as the main source. You cannot set a sound effect for track No. 17 or later. Subsource track No. 1 will be automatically selected for these tracks. Information for discs for which sound effects are set is updated upon playback.
- You can set sound effects for up to 24 main source discs.
- When information for more than 24 discs has been stored, the oldest disc sound effects are thrown out, and new disc sound effects are registered in its place.
- Sound effects settings for discs with no disc title (P.63/90) are all the same because discs without titles cannot be distinguished from each other.
- You can set sound effects for an indivindual disc if it has a disc title entered for it. Sound effects information for that disc is not lost even if the disc is taken out of the player.

Using
DSP

CONTENTS

(112) Using DSP

(114) Sound field control (SFC)

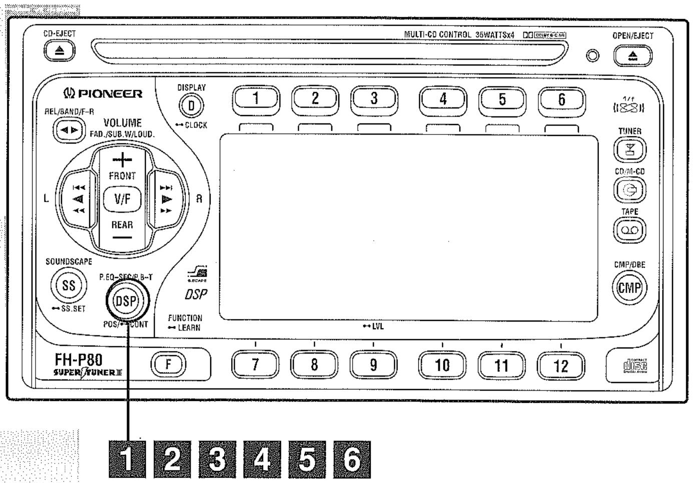
(116) Calling up an equalizer curve

(119) Nuance control

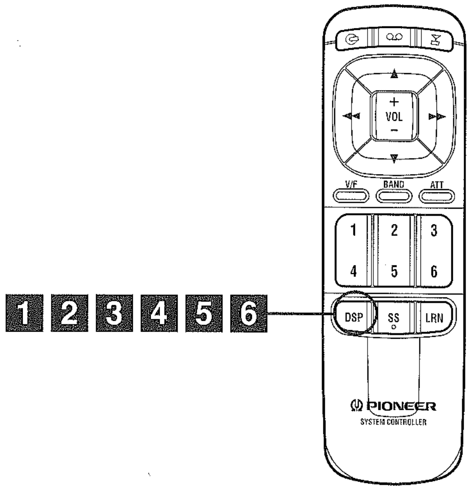
(122) Fine control

(129) Parametric bass/treble

(132) Setting listening position



CD-EJECT
OPEN/EJECT
PIONEER
DISPLAY
D
CLOCK
VOLUME
FAD./SUB.W/LOUD.
FRONT
V/F
REAR
L
R
1
2
3
4
5
6
TUNER
TAPE
CMP/DBE
CMP
SOUNDSCAPE
SS
SS.SET
DSP
FUNCTION
LEARN
FH-P80
F
7
8
9
10
11
12
1 2 3 4 5 6



VOL
V/F
BAND
ATT
1
2
3
4
5
6
DSP
SS
LRN
PIONEER
SYSTEM CONTROLLER
1 2 3 4 5 6

1 Sound field control

A program which reproduces 6 typical sound fields including those found in concert halls and stadiums has been prepared. This allows you to experience a realistic sound field as if you were really in the location being reproduced.

2 Calling up an equalizer curve

Five equalizer curves suited to 5 different music genres including rock, pop and fusion have been prepared.

3 Nuance control

This feature allows you to more fully enjoy the music by correcting the equalizer curves to compensate for acoustical characteristics inside your car.

4 Fine control

This feature allows you to freely adjust the level of the prepared equalizer curves at each separate frequency. You can also re-adjust an equalizer curve you have already changed. You can also adjust the frequency separately for front/rear speakers at 3 out of 16 points.

5 Parametric bass/treble

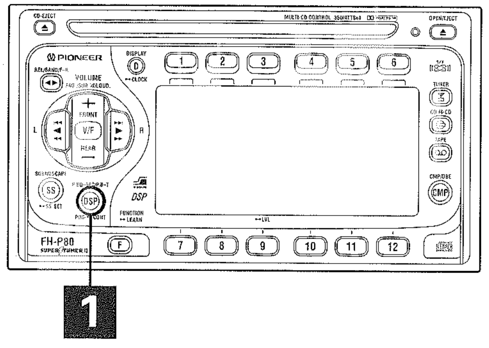
This feature allows you to make bass and treble adjustments independently for the front and rear speakers. For example, you can enhance the highs for the front speakers and the lows for the rear speakers to make clear vocals appear to be in a more forward location.

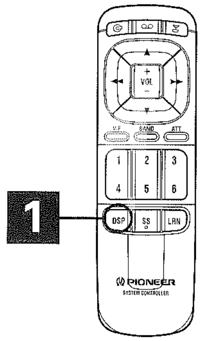
6 Listening position

This feature allows you to select listening position. The delay time and level used for output from each speaker is automatically adjusted in accordance with the seat position and number of people selected.

USING DSP

Creating a listening environment by reproducing a realistic sound field and correcting acoustical characteristics.


CD-EJECT
MULTI-CD CONTROL 35WATTS×4
OPEN/EJECT
PIONEER
DISPLAY
CLOCK
VOLUME
FRONT
V/F
REAR
L
R
TUNER
CD M-CD
TAPE
CMP/DBE
SS
DSP
FUNCTION
LEARN
LVL
FH-P80
SUPER TUNER III
F
1


1
DSP
SS
LRN
PIONEER

1 Selecting the DSP setting mode

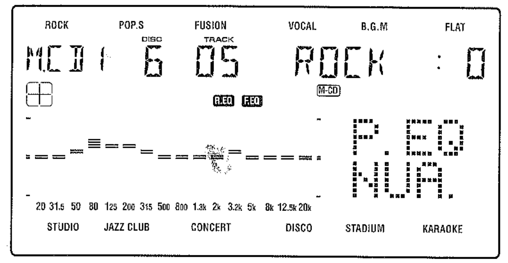
Press the [DSP] button.

Each time the button is pressed, the DSP setting mode will be switched as follows:

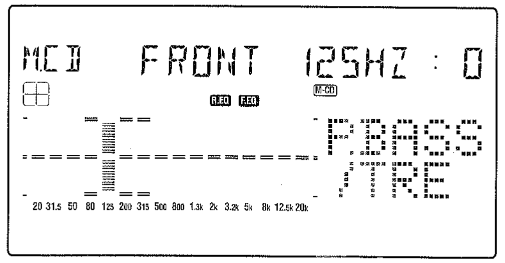
▶ Parametric equalizer ▶ Parametric bass/treble ▶ Listening position selector ▶ OFF

The display will appear as follows as the DSP setting mode is switched.

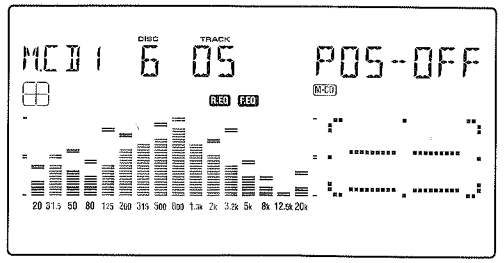
Parametric equalizer


ROCK
POP.S
FUSION
VOCAL
B.G.M
FLAT
DISC
TRACK
M.CD 1 6 05 ROCK : 0
M-CD
R.EQ
F.EQ
P.EQ
NUA.
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
STUDIO
JAZZ CLUB
CONCERT
DISCO
STADIUM
KARAOKE

Parametric bass/treble


M.CD FRONT 125HZ : 0
M-CD
R.EQ
F.EQ
P.BASS
/TRE
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k

Listening position selector


DISC
TRACK
M.CD 1 6 05 POS-OFF
M-CD
R.EQ
F.EQ
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k

MEMO

- The parametric equalizer setting mode includes 2 sub-modes: nuance control setting mode (☞ P.119) and fine control setting mode (☞ P.122).

Digital signal processor functions

The DSP of this unit provides reproduction of a realistic sound field and flattens the acoustical characteristics in the vehicle to create an ideal listening environment.
The DSP consists of the following 3 functions:

- Sound Field Control function
- Digital equalizer function
- Listening position selector function

The DSP uses these functions simulteneously to obtain a rich sound field and the appropriate acoustical characteristics.

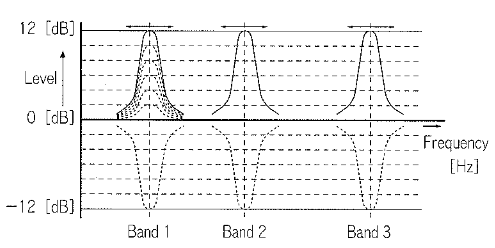
Sound Field Control

The length and quality of the direct sound, initial reflection and revereration vary highly depending on the size and shape of a concert hall. For the Sound Field Control Function, a program reproducing 5 typical sound fields, such as found in concert halls and stadiums, has been prepared. It is therefore possible to experience a sound field so realistic it's as if you were there. A sixth karaoke sound field is also available (☞ P.115).

Digital equalizer

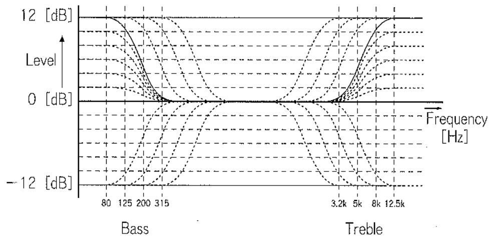
● Parametric equalizer

Inside the vehicle, irregular sound relfection is caused by its size, shape and material. As a result, peak (emphasis) and dip (attenuation) will be produced in the frequency response of the sound from the speakers. The parametric equalizer can be used to freely adjust frequency levels to flatten the acoustical characteristics found inside the vehicle. Three variable frequencies from 16 frequency points can be selected to adjust the front and rear speakers separately.



● Parametric bass/treble

When 4 speaker are used in the car audio system, adjusting sound quality for the 4 speakers all at once is not always effective. The parametric bass/treble function can be used to control the front and rear speakers separately. For example, you can enhance the highs for the front speakers and the lows for the rear speakers to make clear vocals appear to be in a more forward location.

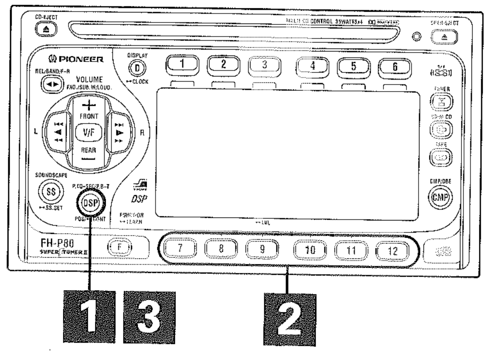


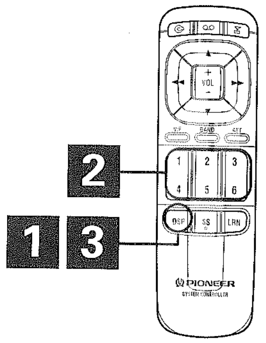
Listening position selector

The delay time and level used for output from each speaker is automatically adjusted in accordance with the seat position and number of people selected. Using this function with the Sound Field Control function allows the creation of a natural listening position in which you can experience a rich sound field wrapped around your body.

SOUND FIELD CONTROL (SFC)

Selecting the sound field program for reproducing a realistic sound field.

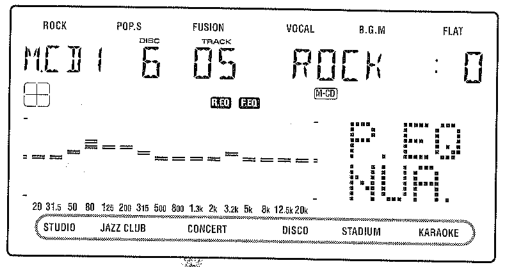




1 Selecting the DSP setting mode

Press the [DSP] button.

The system will enter the parametric equalizer setting mode.



Indicators for 6 sound field programs will light in a line on the display.

2 Selecting a sound field program

Press one of the number buttons [7] to [12] on the main unit or press one of the number buttons [1] to [6] on the remote controller for more than 2 seconds.

The [SFC] indicator will light and the indicator for the selected sound field will blink.

Repeat the same operation to cancel SFC.

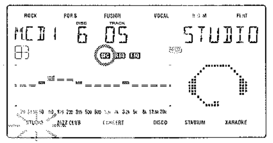
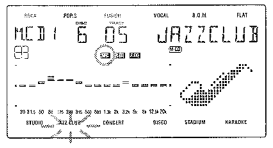
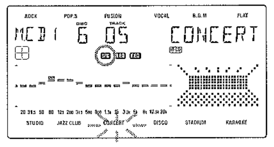
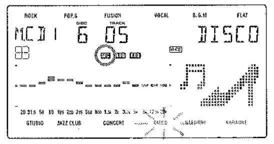
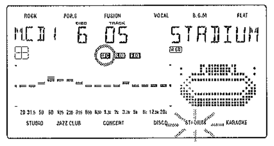
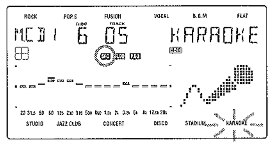
3 Cancelling the DSP setting mode

Press the [DSP] button 3 times.

The display will return to normal.

MEMO

- A sound field program can be set separately for each source (the same setting is used for the built-in CD player and any multi-CD players). When the source is switched, the sound field program last set for that source will be called up automatically.

Main unit buttons (remote controller): Sound field program name and associated display	Sound field program description
7 (⊸1): STUDIO 	Localizes the sound image to axial sensitivity and does not add reverberation sound. Reproduces a basic sound field by processing initial reflection sound from the walls of a relatively small mixing room.
8 (⊸2): JAZZ CLUB 	Reproduces the sound image found in jazz clubs having audiences of 50 to 100 people. Highly effective for live recordings. Provides realistic reproduction of reflections from the walls and reverberation.
9 (⊸3): CONCERT 	Reproduces the sound image found in classical music concert halls having audiences of 1,000 to 2,000 people. Allows you to enjoy spread and depth of sound reflections and reverberation.
10 (⊸4): DISCO 	Reproduces the sound image found in discos accomodating about 50 people. Suitable for reproducing a sound field with facilitated absorption of reverberation and for enjoying music with a powerful beat.
11 (⊸5): STADIUM 	Reproduces the sound image found in outdoor stadiums. Reflection from distant walls produces an echo sound. The system utilizes this effect to reproduce a dynamic sound field.
12 (⊸6): KARAOKE 	The karaoke effect is realized through digital signal processing. Reproduces a sound field as if you are singing on a stage in front of about 15 or 20 people. The voice of the singer(s) becomes lower if this sound field program is turned on.

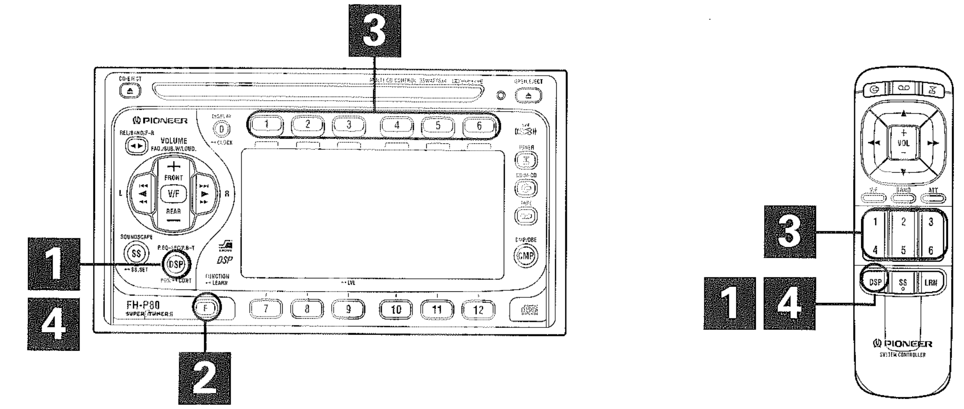
- In the chart above, the ⊸ symbol means that the button to the right should be pressed for more than 2 seconds.

About karaoke mode

- Although karaoke mode works on broadcast or tracks recorded in stereo, it does not work on broadcast or tracks recorded in mono or on multiplex audio karaoke CDs.
- Depending on the track the singer's voice may remain even in the case of stereo recordings. Also, if an echo effect has been added to the singer's voice, the echo component may remain making the singer's voice appear to sound delayed.

CALLING UP AN EQUALIZER CURVE

Selecting an equalizer curve from among 12 types (6 Pioneer proprietary preset curves prepared for common music genres, and 6 user curves).

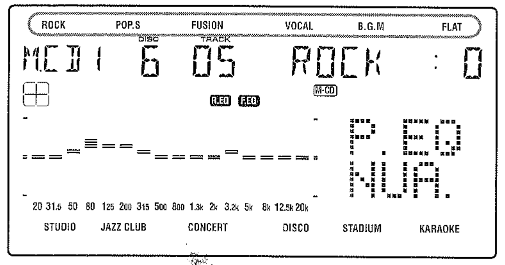


3
1
4
2
PIONEER
VOLUME
DSP
FH-P80
3
1
4
PIONEER

1 Selecting the DSP setting mode

Press the [DSP] button.

The system will enter the parametric equalizer setting mode.



ROCK
POP.S
FUSION
VOCAL
B.G.M
FLAT
MCD1 6 05 ROCK : 0
R.EQ F.EQ
M-CD
P.EQ
NUA.
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
STUDIO
JAZZ CLUB
CONCERT
DISCO
STADIUM
KARAOKE

Indicators for 6 equalizer curves will light in a line on the display.

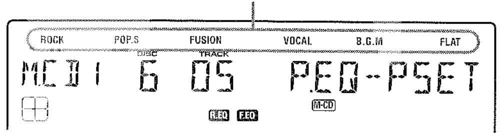
2 Selecting the equalizer curve selection mode

Press the [F] button.

The system will switch between the Pioneer proprietary preset mode and user mode each time the button is pressed.

When the Pioneer proprietary preset mode is selected, the Pioneer proprietary preset curve indicators will blink.

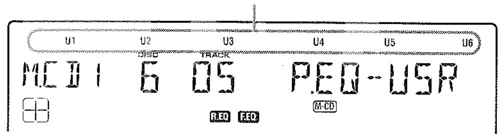
Pioneer proprietary preset curve indicators



ROCK
POP.S
FUSION
VOCAL
B.G.M
FLAT
MCD1 6 05 PEQ-PSET
R.EQ F.EQ
M-CD

When the user mode is selected, the user curve indicators will blink.

User curve indicators



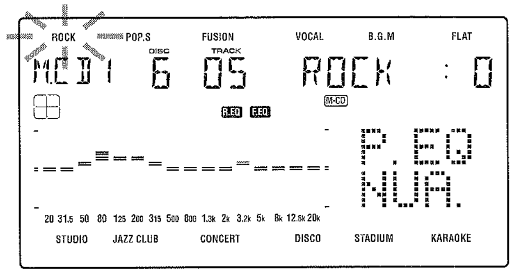
U1
U2
U3
U4
U5
U6
MCD1 6 05 PEQ-USR
R.EQ F.EQ
M-CD

3 Selecting an equalizer curve

Press one of the number [1] to [6] buttons.

The indicator for the selected equalizer curve will blink.

Example: When the Pioneer proprietary preset curve for ROCK is selected



ROCK
POP.S
FUSION
VOCAL
B.G.M
FLAT
MCD1 6 05 ROCK : 0
R.EQ F.EQ
M-CD
P.EQ
NUA.
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
STUDIO
JAZZ CLUB
CONCERT
DISCO
STADIUM
KARAOKE

The system the enters nuance control setting mode during the Pioneer proprietary preset mode.

The system enters the fine control setting mode during user mode.

4 Cancelling the DSP setting mode

Press the [DSP] button 3 times.

The display will return to normal.

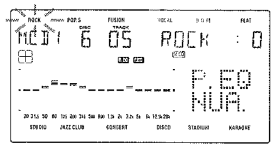
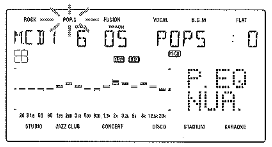
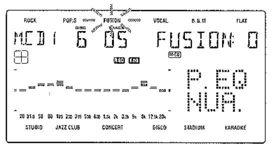
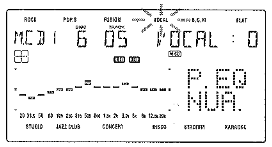
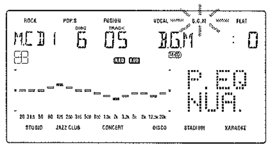
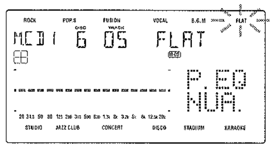
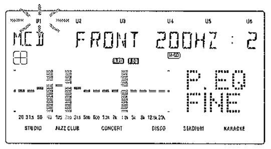
About the [R.EQ]/[F.EQ] indicators

When both the [R.EQ] and [F.EQ] indicators are lit, this indicates that the equalizer is being used on both the front and rear speakers.
Since the same Pioneer proprietary preset curve corresponding to buttons [1] through [5] is used on both the front and rear speakers, both indicators will light when one of these curves is selected.

MEMO

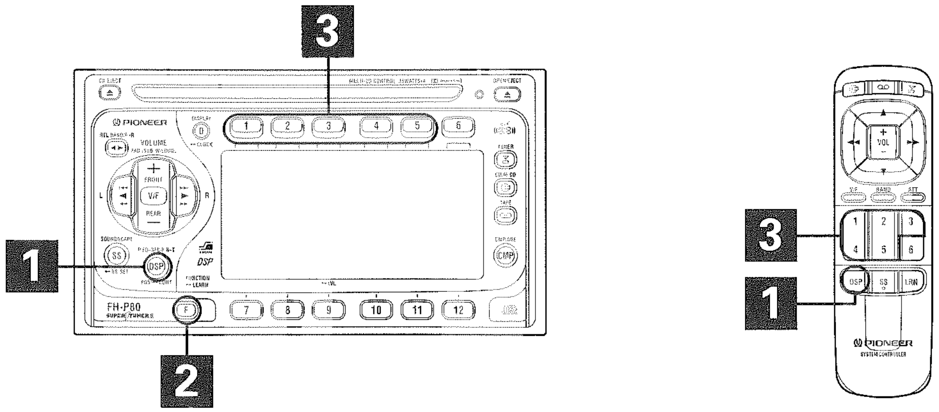
- The equalizer curve can be set for each source (The setting are identical for the built-in CD player and the multi-CD player). Once the source is switched, the equalizer curve set last time is brought out.

CALLING UP AN EQUALIZER CURVE - CONTINUED

Main unit buttons (remote controller): Equalizer curve names and associated display		Equalizer curve description
Pioneer proprietary preset mode	**1 (1): ROCK** 	Emphasizes the band corresponding to the rhythm section of rock music so that powerful sound can be reproduced with supplemented low and high ranges.
	2 (2): POP.S 	Particularly emphasizes the mid-range so that light pop sound can be enjoyed.
	3 (3): FUSION 	Emphasizes the low and high ranges more intensely than ROCK mode so that a wide-range feeling can be obtained. Suitable for enjoying fusion music in a relaxed environment.
	4 (4): VOCAL 	Emphasizes the vocal bands and minimizes the low range to increase articulation. Use this mode to emphasize vocal signals or when listening to conversation.
	5 (5): B.G.M 	Suppresses stimulating treble and emphasizes soft bass to produce easy-listening music.
	6 (6): FLAT 	No correction is made to the sound. This is a useful function for checking the effect of an equalizer curve by switching alternately between FLAT and a set equalizer curve.
User mode	**1 – 6 (1 – 6): User curves** 	Equalizer curves can be adjusted to taste using the nuance control (☞ P.119) or the fine control (☞ P.122), and these settings can be stored.

NUANCE CONTROL

Adjust and store the acoustical characteristics of 5 preset equalizer curves (Pioneer proprietary preset curves).



1 Selecting the DSP setting mode

Press the [DSP] button.

The system will enter the parametric equalizer setting mode.

2 Selecting the Pioneer proprietary preset mode

Press the [F] button (☞ P.116) if the Pioneer proprietary preset curve indicators are off.

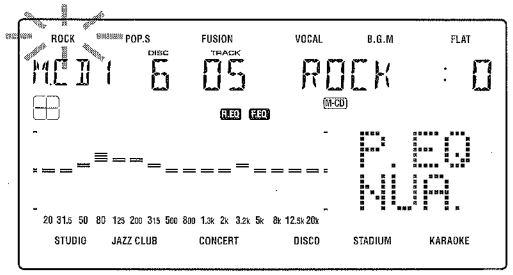
The system will the enter Pioneer proprietary preset mode.

3 Selecting an equalizer curve to adjust

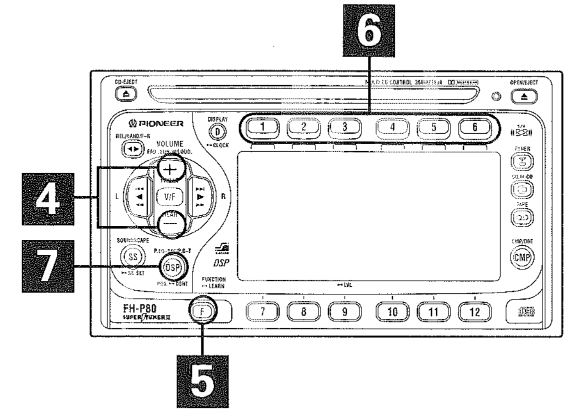
Press one of the number [1] to [5] buttons.

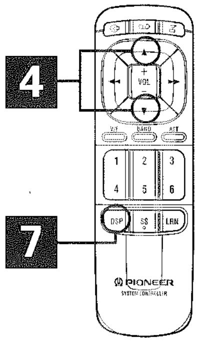
The indicator for the selected Pioneer proprietary preset curve will blink and the system will enter the nuance control mode.

Example: When ROCK is selected



NUANCE CONTROL - CONTINUED

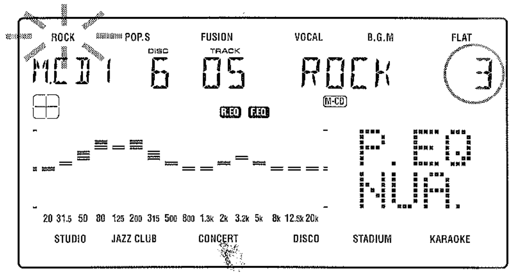

6
4
7
5
PIONEER
VOLUME
DSP
FH-P80
1
2
3
4
5
6
7
8
9
10
11
12


4
7
VOL
1
2
3
4
5
6
DSP
PIONEER

4 Adjusting an equalizer curve

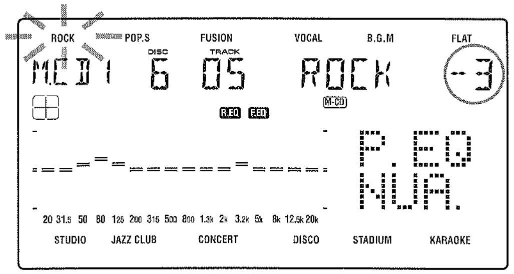
- **To increase an increment step, press the [+] button on the main unit or the ▲ button on the remote controller.**

The increment step will increase each time the button is pressed.


ROCK
POP.S
FUSION
VOCAL
B.G.M
FLAT
DISC
TRACK
MCD 1
6
05
ROCK
3
M-CD
R.EQ
F.EQ
P.EQ
NUA.
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
STUDIO
JAZZ CLUB
CONCERT
DISCO
STADIUM
KARAOKE

- **To decrease an increment step, press the [–] button on the main unit or the ▼ button on the remote controller.**

The increment step will decrease each time the button is pressed.


ROCK
POP.S
FUSION
VOCAL
B.G.M
FLAT
DISC
TRACK
MCD 1
6
05
ROCK
-3
M-CD
R.EQ
F.EQ
P.EQ
NUA.
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
STUDIO
JAZZ CLUB
CONCERT
DISCO
STADIUM
KARAOKE

Increment step can be adjusted within the range "–6" to "6".

5 Selecting the user mode

Press the [F] button.

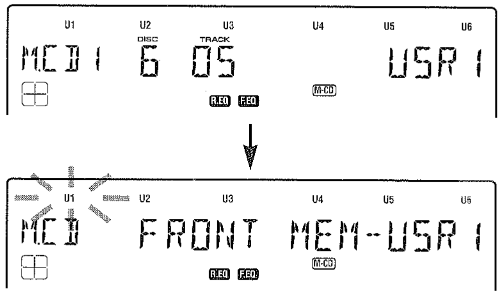
The system will enter the user mode.

6 Storing an adjusted equalizer curve

Press one of the number [1] to [6] buttons on the main unit for more than 2 seconds.

A beep will be emitted and the equalizer curve will be stored at the selected button.

Example: When the number [1] button is pressed


U1
U2
U3
U4
U5
U6
DISC
TRACK
MCD 1
6
05
USR 1
R.EQ
F.EQ
M-CD
MCD
FRONT
MEM-USR 1

7 Cancelling the DSP setting mode

Press the [DSP] button 3 times.

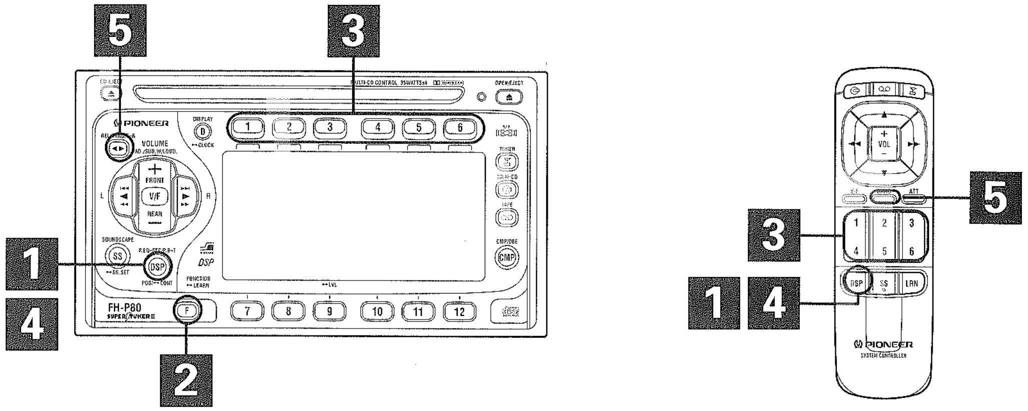
The display will return to normal.

MEMO

- FLat portion of the pioneer proprietary preset curve may not be adjusted.
- A stored equalizer curve (user curve) can be selected in the user mode (☞ P.116).
- The compensated equalizer curve will be stored as the pioneer proprietary preset curve. When the pioneer preset curve is selected next, the compensated equalizer curve will be brought out.

FINE CONTROL

Adjusting the frequency levels of an equalizer curve separately for the front and rear speakers.


5
3
1
4
2
PIONEER
FH-P80
DSP
3
5
1
4

1 Selecting the DSP setting mode

Press the [DSP] button.

The system will enter the parametric equalizer setting mode.

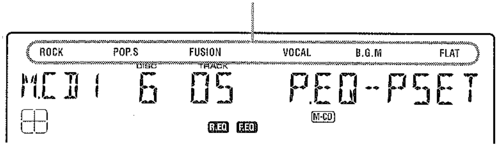
2 Selecting the equalizer curve selection mode

Press the [F] button.

The system will switch between the Pioneer proprietary preset mode and user mode each time the button is pressed.

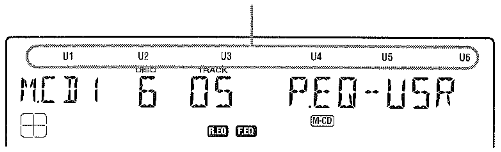
When the Pioneer proprietary preset mode is selected, the Pioneer proprietary preset curve indicators will blink.

Pioneer proprietary preset curve indicators


ROCK
POP.S
FUSION
VOCAL
B.G.M
FLAT
MCD 1 6 05 PEQ-PSET

When the user mode is selected, the user curve indicators will blink.

User curve indicators


U1
U2
U3
U4
U5
U6
MCD 1 6 05 PEQ-USR

3 Selecting an equalizer curve

Press one of the number [1] to [6] buttons.

The indicator for the selected user curve will blink.

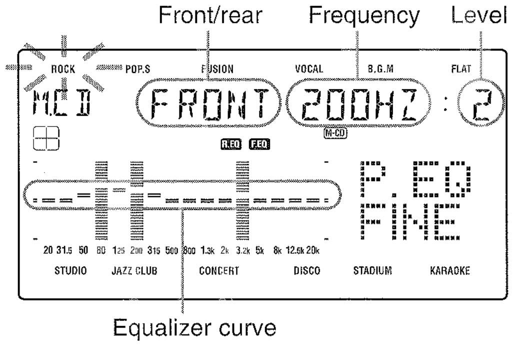
When the mode is the Pioneer proprietary preset mode, the system will enter the nuance control mode.

When the mode is user mode, the system will enter the fine control mode. Now go to step 5.

4 Selecting the setting mode

Press the [DSP] button for more than 2 seconds.

The system will enter the fine control setting mode.


Front/rear
Frequency
Level
ROCK
POP.S
FUSION
VOCAL
B.G.M
FLAT
MCD
FRONT
200HZ
2
P.EQ
FINE
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
STUDIO
JAZZ CLUB
CONCERT
DISCO
STADIUM
KARAOKE
Equalizer curve

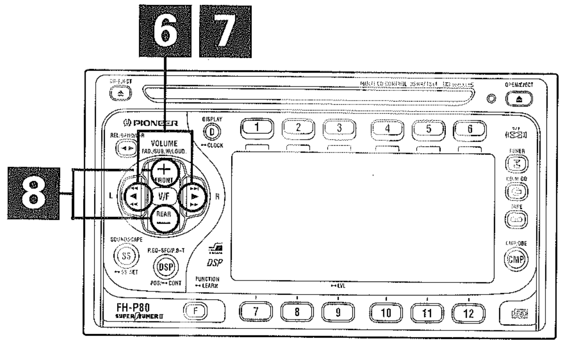
5 Selecting the front or rear speakers

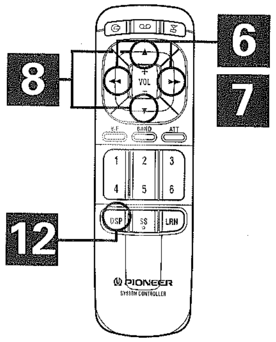
Press the ◂▸ button on the main unit or the [BAND] button on the remote controller.

The system will switch between front and rear speakers each time the button is pressed. When front speakers are selected "FRONT" will be displayed. When rear speakers are selected "REAR" will be displayed.

MEMO

- The adjusted equalizer curve will be reset when another equalizer curve is selected. Perform steps 11 and 12 if you want to save the adjusted curve.
- A stored equalizer curve (user curve) can be selected in the user mode (☛ P.116).

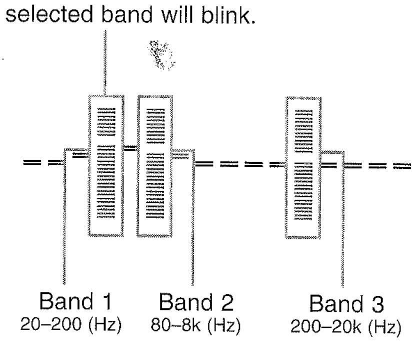




6 Selecting a frequency band

■ **To select a lower band, press the ◄ button on the main unit or the ◄◄ button on the remote controller for more than 2 seconds.**
The band to be adjusted will be set to the next lower band (left) each time the button is pressed for more than 2 seconds.

■ **To select a higher band, press the ► button on the main unit or the ►► button on the remote controller for more than 2 seconds.**
The band to be adjusted will be set to the next higher band (right) each time the button is pressed for more than 2 seconds.



7 Selecting a frequency

■ **To select a lower frequency, press the ◄ button on the main unit or the ◄◄ button on the remote controller.**
The frequency to be adjusted will be set to the next lower frequency (left) each time the button is pressed.

■ **To select a higher frequency, press the ► button on the main unit or the ►► button on the remote controller.**
The frequency to be adjusted will be set to the next higher frequency (right) each time the button is pressed.

Frequencies can be selected from the following 16 points.
20, 31.5, 50, 80, 125, 200, 315, 500, 800, 1.3k, 2k, 3.2k, 5k, 8k, 12.5k, 20k
(Units: Hz)

You cannot select 2 adjacent bands such as the 80 Hz and 125 Hz bands.

8 Adjusting frequency level

■ **To increase a frequency level, press the [+] button on the main unit or the ▲ button on the remote controller.**
The frequency level will increase each time the button is pressed.

■ **To decrease a frequency level, press the [–] button on the main unit or the ▼ button on the remote controller.**
The frequency level will decrease each time the button is pressed.

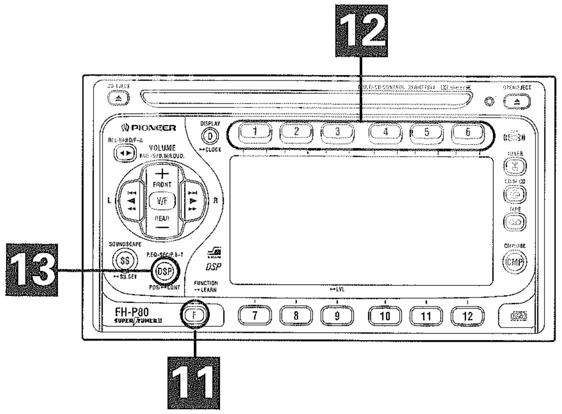
Frequency level can be adjusted within the range “–6” to “6”.

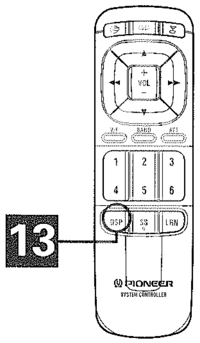
9 Adjusting another band

Repeat steps 6 through 8.

10 Switching front/rear speakers and making further adjustments

Repeat steps 5 through 9.





11 Changing to user mode

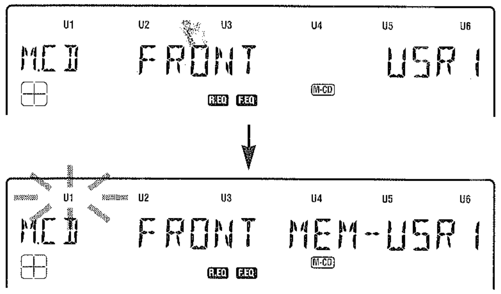
If set to Pioneer propritary preset mode, press the [F] button to enter user mode. (☛ P.116)

12 Storing an adjusted equalizer curve

Press one of the number [1] to [6] buttons on the main unit for more than 2 seconds.

A beep will be emitted and the equalizer curve will be stored at the selected button.

Example: When the number [1] button is pressed



13 Cancelling the DSP setting mode

Press the [DSP] button 3 times.

The display will return to normal.

Sound field correction using fine control

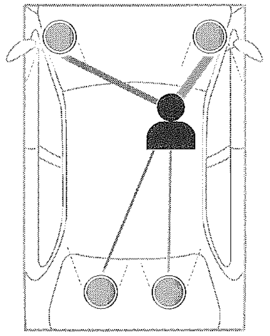
The fine control adjustment can not only be used as an equalizer for producing various sounds, but can also be used for sound field correction.

Specific sound quality is associated with car audio depending on the location in which speakers have been installed. Fine control freely selects mid-range frequencies, thus improving this sound quality and making for more natural sounds. Examples are shown below given typical speaker placement. Try various fine control settings based on these examples.

Cautions during adjustment

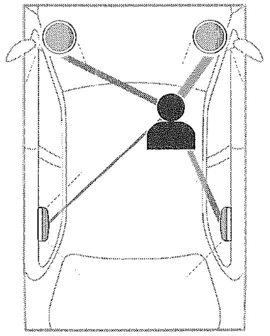
- Enhancing lows may cause distortion of the sound depending on the speakers.
- No effect may be gained depending on the type of vehicle.

Example 1: Front speakers: Dashboard installation
Rear speakers: Rear tray installation



		Band 1	Band 2	Band 3
Front	Frequency	200 Hz	500 Hz	1.3 kHz
	Level (2 dB/1 step)	+2 dB (+1)	+4 dB (+2)	–4 dB (–2)
Rear	Frequency	50 Hz	200 Hz	500 Hz
	Level (2 dB/1 step)	+2 dB (+1)	–6 dB (–3)	+6 dB (+3)

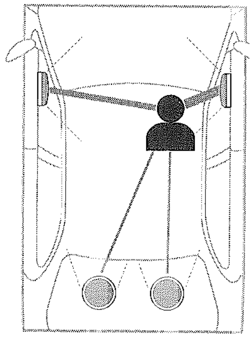
Example 2: Front speakers: Dashboard installation
Rear speakers: Rear door installation



		Band 1	Band 2	Band 3
Front	Frequency	200 Hz	500 Hz	1.3 kHz
	Level (2 dB/1 step)	+2 dB (+1)	+4 dB (+2)	–4 dB (–2)
Rear	Frequency	125 Hz	1.3 kHz	3.2 kHz
	Level (2 dB/1 step)	–6 dB (–3)	–2 dB (–1)	+4 dB (+2)

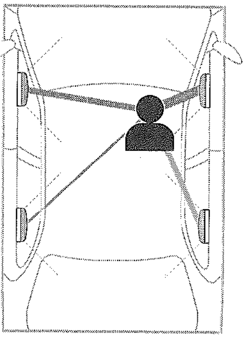
FINE CONTROL - CONTINUED

Example 3: Front speakers: Front door installation
Rear speakers: Rear tray installation



		Band 1	Band 2	Band 3
Front	Frequency	200 Hz	500 Hz	1.3 kHz
	Level (2 dB/1 step)	–4 dB (–2)	+4 dB (+2)	–6 dB (–3)
Rear	Frequency	50 Hz	200 Hz	500 Hz
	Level (2 dB/1 step)	+2 dB (+1)	–6 dB (–3)	+6 dB (+3)

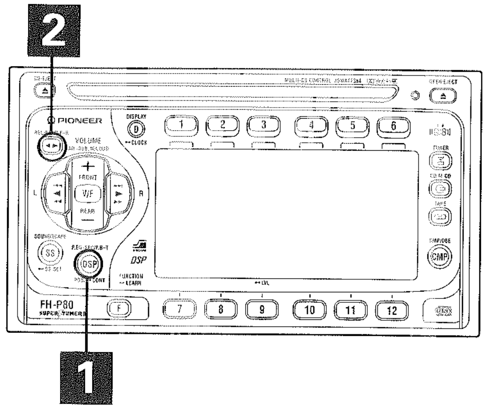
Example 4: Front speakers: Front door installation
Rear speakers: Rear door installation

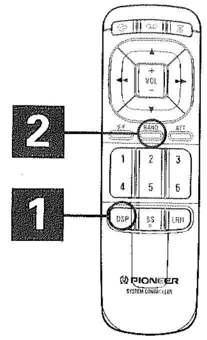


		Band 1	Band 2	Band 3
Front	Frequency	200 Hz	500 Hz	1.3 kHz
	Level (2 dB/1 step)	–4 dB (–2)	+4 dB (+2)	–6 dB (–3)
Rear	Frequency	125 Hz	1.3kHz	3.2kHz
	Level (2 dB/1 step)	–6 dB (–3)	–2 dB (–1)	+4 dB (+2)

PARAMETRIC BASS/TREBLE

Adjusting low and high sound quality separately for the front and rear speakers.

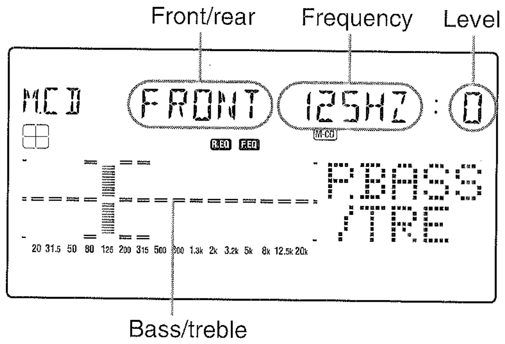

2
1
PIONEER
DSP
FH-P80


2
1
BAND
DSP
PIONEER

1 Selecting the DSP setting mode

Press the [DSP] button 2 times.

The system will enter the parametric bass/treble setting mode.

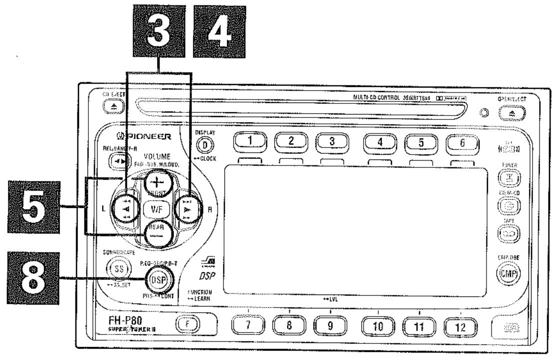

Front/rear
Frequency
Level
M.CD
FRONT
125HZ
0
P.BASS /TRE
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
Bass/treble

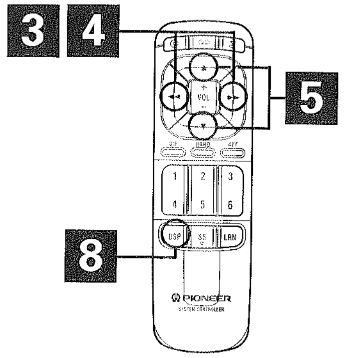
2 Selecting the front or rear speakers

Press the ◀▶ button on the main unit or the [BAND] button on the remote controller.

The system will switch between front and rear speakers each time the button is pressed. When front speakers are selected "FRONT" will be displayed. When rear speakers are selected "REAR" will be displayed.

PARAMETRIC BASS/TREBLE - CONTINUED



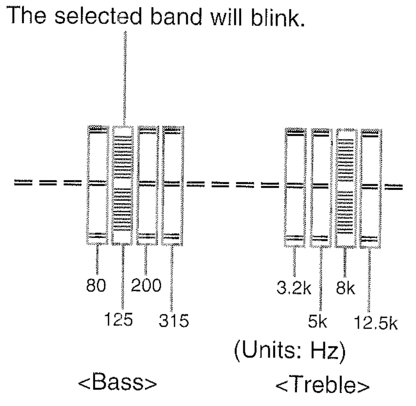


3 Selecting bass/treble

- **To select bass, press the ◄ button on the main unit or the ◄◄ button on the remote controller for more than 2 seconds.**
  Bass frequencies will blink.
- **To select treble, press the ► button on the main unit or the ►► button on the remote controller for more than 2 seconds.**
  Treble frequencies will blink.

4 Selecting a frequency

- **To select a lower frequency, press the ◄ button on the main unit or the ◄◄ button on the remote controller.**
  The frequency to be adjusted will be set to the next lower frequency (left) each time the button is pressed.
- **To select a higher frequency, press the ► button on the main unit or the ►► button on the remote controller.**
  The frequency to be adjusted will be set to the next higher frequency (right) each time the button is pressed.



5 Adjusting frequency level

- **To increase a frequency level, press the [+] button on the main unit or the ▲ button on the remote controller.**
  The frequency level will increase each time the button is pressed.
- **To decrease a frequency level, press the [–] button on the main unit or the ▼ button on the remote controller.**
  The frequency level will decrease each time the button is pressed.

Frequency level can be adjusted within the range "–6" to "6".

6 Switching bass/trebl and making further adjustments

Repeat steps 3 through 5.

7 Switching front/rear speakers and making further adjustments

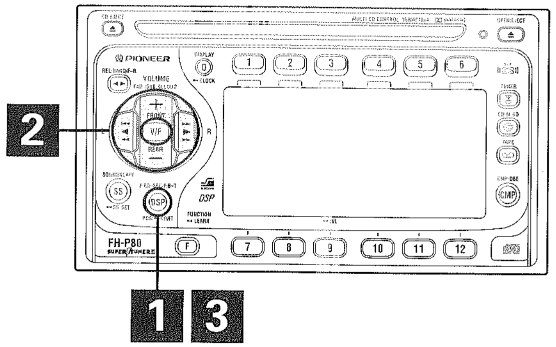
Repeat steps 2 through 6.

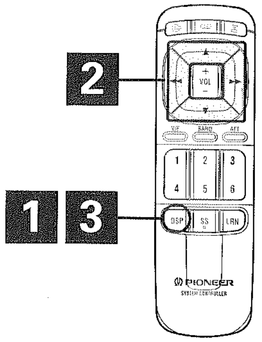
8 Cancelling the DSP setting mode

Press the [DSP] button 2 times.
The display will return to normal.

SETTING LISTENING POSITION

Selecting listening position based on the passenger's location and number of passengers.

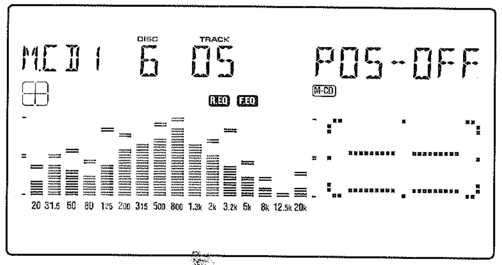




1 Selecting the DSP setting mode

Press the [DSP] button 3 times.

The system will enter the listening position setting mode.


DISC
TRACK
MCD1 6 05
POS-OFF
R.EQ
F.EQ
M-CD
20 31.5 50 80 125 200 315 500 800 1.2k 2k 3.2k 5k 8k 12.5k 20k

2 Selecting a listening position

- **To select the driver's seat (right-side steering wheel), press the ► button on the main unit or the ►► button on the remote controller.**

  The driver's seat position (right-side steering wheel) will be turned on/off each time this button is pressed.

- **To select the driver's seat (left-side steering wheel), press the ◄ button on the main unit or the ◄◄ button on the remote controller.**

  The driver's seat position (left-side steering wheel) will be turned on/off each time this button is pressed.

- **To select the front seat position, press the [+] button on the main unit or the ▲ button on the remote controller.**

  The front seat position will be turned on/off each time this button is pressed.

- **To select the front and back seat position, press the [–] button on the main unit or the ▼ button on the remote controller.**

  The front and back seat position will be turned on/off each time this button is pressed.

3 Cancelling the DSP setting mode

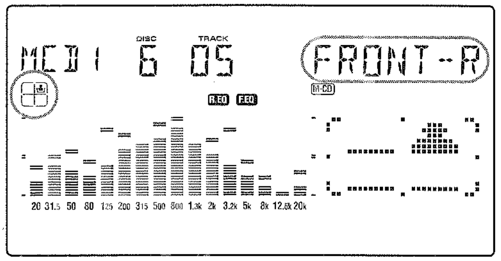
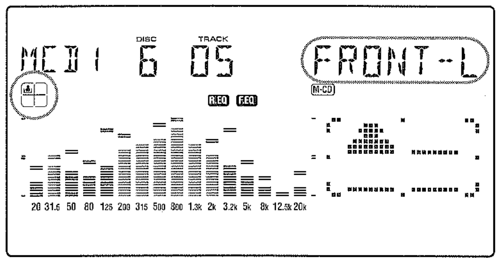
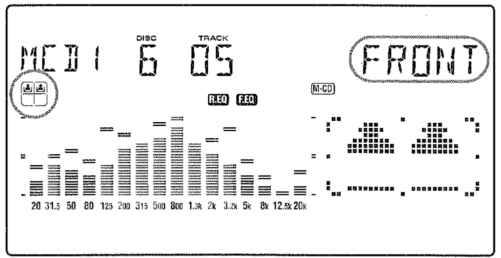
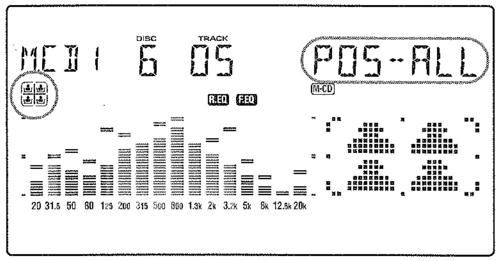
Press the [DSP] button.

The display will return to normal.

MEMO

- The fader/balance can be set at each positon (☞ P.14). Selecting a positon automatically brings up the fored fader/balance valves at the same time. The brought up fader/balance can also be adjusted. (☞ P.14)
  To return to their initial values, select the positions in operation 2 above, and then press the button for 2 seconds or more.

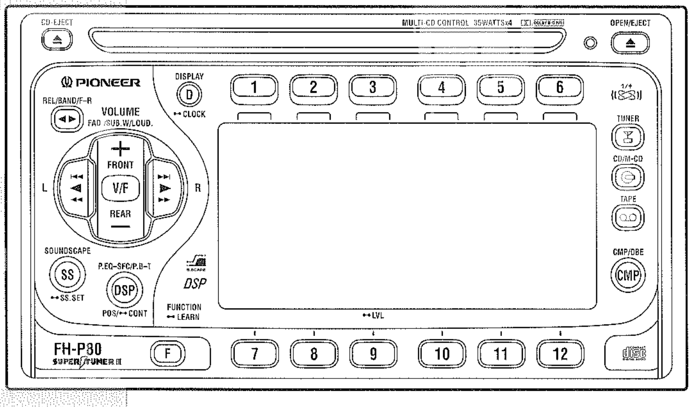
SETTING LISTENING POSITION - CONTINUED

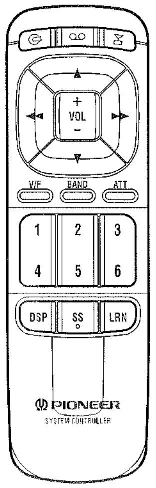
Main unit button (remote controller)	Listening position	Display
► (►►)	Driver's seat (right-side steering wheel)	 MCD1 DISC 6 TRACK 05 FRONT-R M-CD R.EQ F.EQ
◄ (◄◄)	Driver's seat (left-side steering wheel)	 MCD1 DISC 6 TRACK 05 FRONT-L M-CD R.EQ F.EQ
+ (▲)	Front seat	 MCD1 DISC 6 TRACK 05 FRONT M-CD R.EQ F.EQ
– (▼)	Front and back seat	 MCD1 DISC 6 TRACK 05 POS-ALL M-CD R.EQ F.EQ

OTHER FUNCTIONS

CONTENTS

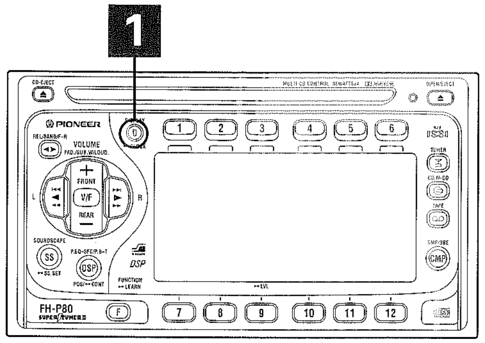
136 Selecting the display
138 Adjusting contrast
139 Demo mode
140 Learn function
141 Connecting external equipment
142 Using the clock
144 Resetting the main unit


PIONEER
FH-P80
SUPER TUNER III
VOLUME
FRONT
V/F
REAR
SOUNDSCAPE
SS
DSP
FUNCTION
DISPLAY
1
2
3
4
5
6
7
8
9
10
11
12
F
L
R


VOL
V/F
BAND
ATT
1
2
3
4
5
6
DSP
SS
LRN
PIONEER
SYSTEM CONTROLLER

SELECTING THE DISPLAY

Switching the content of spectrum analyzer in the display.

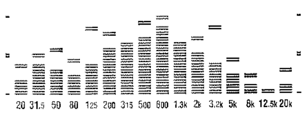
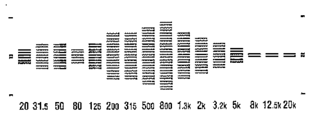
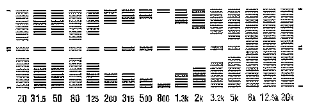
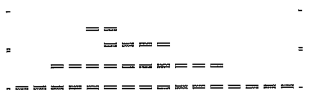
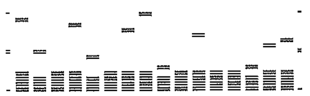
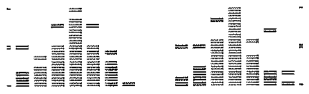
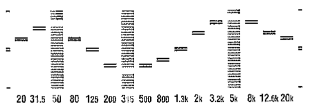
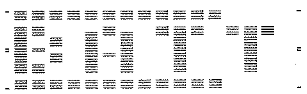
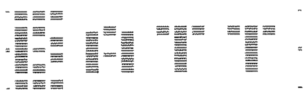

1
PIONEER
FH-P80

1 Selecting the display

Press the [D] button.

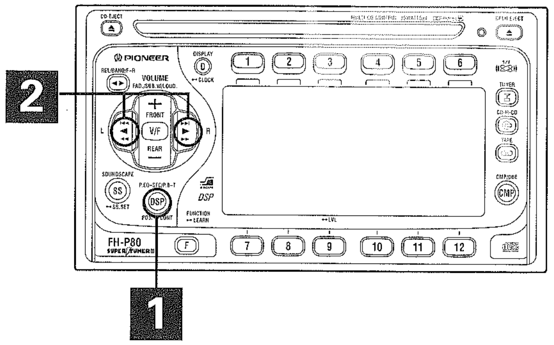
Each time the button is pressed, spectrum analyzer part of the display will be switched as follows:

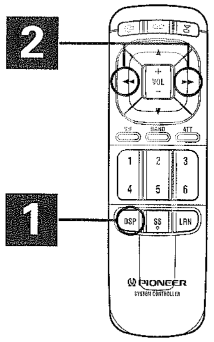
→ Peak bound display ▶ Symmetric display 1 ▶ Symmetric display 2 ▶ Winding road display
Voltage display ◀ Equalizer curve display ◀ L/R independent peak bound display ◀ Safety snow display ←

Spectrum analyzer display name and associated display	Spectrum analyzer display description
Peak bound display  20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k	The sound intensity of each frequency is shown by height.
Symmetric display 1  20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k	The sound intensity of each frequency is shown by width.
Symmetric display 2  20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k	The same pattern as symmetric display 1 is shown with light and dark portions reversed.
Winding road display 	Shows patterns as if running on the winding road.
Safety snow display 	Shows patterns as if snow is falling. Once the spectrum analyzer indicator is full, the number of fallen snow flakes will be displayed.
L/R independent peak bount display 	The peak bound for the right speaker is shown separately from that for the left speaker.
Equalizer curve display  20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k	The equalizer curve currently selected is displayed.
Voltage display • When voltage supplied to the main unit is normal  • When voltage supplied to the main unit is low 	The apprroximate voltage supplied to the main unit is indicated. This is the voltage minus the loss due to the automobile electronics wiring.

ADJUSTING CONTRAST

Adjusting display contrast.

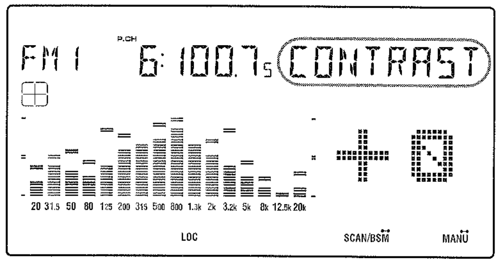

2
1
PIONEER
VOLUME
FRONT
V/F
REAR
DSP
FH-P80


2
1
VOL
DSP
PIONEER

1 Selecting the adjustment mode

Press the [DSP] button for more than 2 seconds.

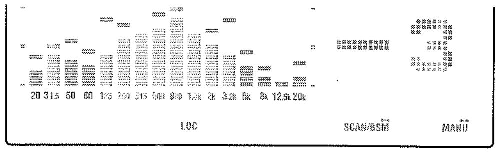
The system will enter the contrast adjustment mode.


FM 1
P.CH
6: 100.7
CONTRAST
+0
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
LOC
SCAN/BSM
MANU

2 Adjusting the contrast

■ **To lighten the contrast, press the ◄ button on the main unit or the ◄◄ button on the remote controller.**

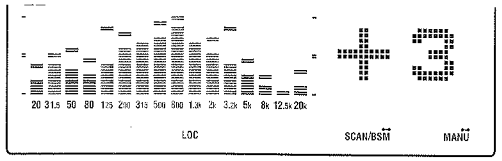
The display will lighten each time the button is pressed.


-3
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
LOC
SCAN/BSM
MANU

■ **To darken the contrast, press the ► button on the main unit or the ►► button on the remote controller.**

The display will darken each time the button is pressed.

Contrast can be adjusted within the range "–7" to "+7".

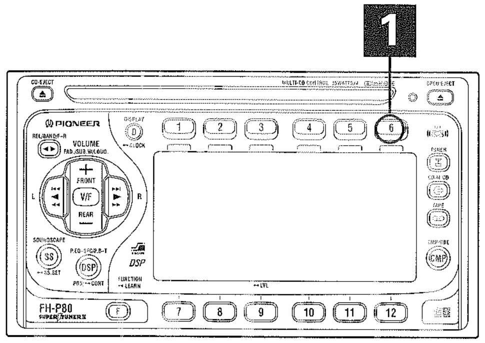

+3
20 31.5 50 80 125 200 315 500 800 1.3k 2k 3.2k 5k 8k 12.5k 20k
LOC
SCAN/BSM
MANU

MEMO

- The adjustment mode will be cancelled if no operation occurs for 8 seconds.
- Contrast display may be adjusted during demonstration display. (☞ P.139)

DEMO MODE

Selecting a display demonstration.

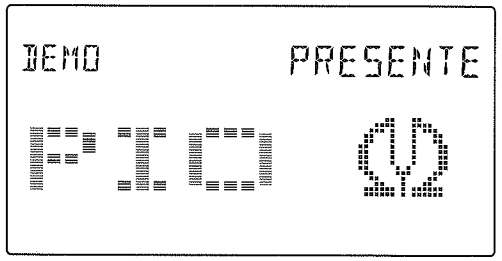

1
PIONEER
VOLUME
FRONT
V/F
REAR
DSP
FH-P80

1 Turning on the demo mode

Press the number [6] button on the main unit when the source is off.

A demonstration will start on the display.

Demo mode sample


DEMO
PRESENTE
PIO

Perform the same operation step again to turn the demo mode off.

Caution concerning stopped engine

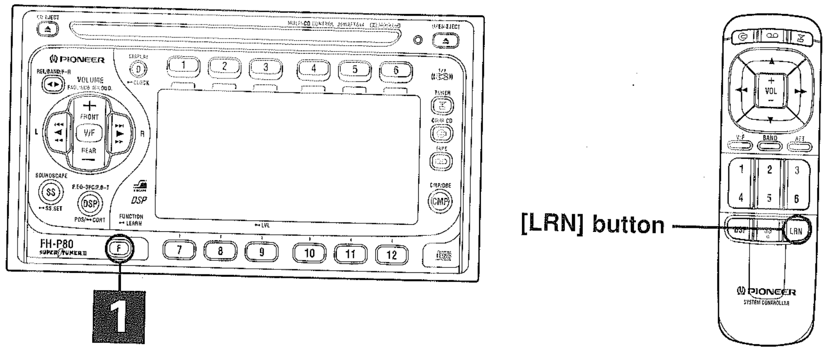
- The battery may be drained if the demonstration is performed for an extended period while the engine is stopped.

MEMO

- The demonstration will start automatically whenever the source is turned off if the demo mode is left set to on.

LEARN FUNCTION

Storing a main unit button at the [LRN] button of the remote controller.



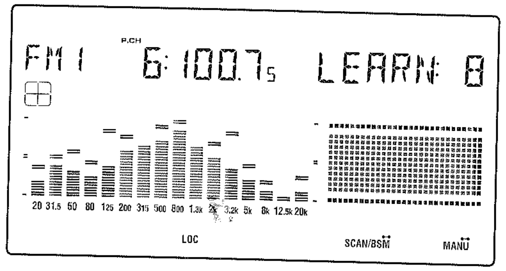
About the learn function

This function allows you to store a main unit button at the [LRN] button of the remote controller. This is useful for storing a frequently used button.

1 Selecting the learn mode

Press the [F] button for more than 2 seconds.

"LEARN" will be displayed, and the system will enter the learn mode.



2 Learning a button

Press the button on the main unit that you want the remote controller to learn.

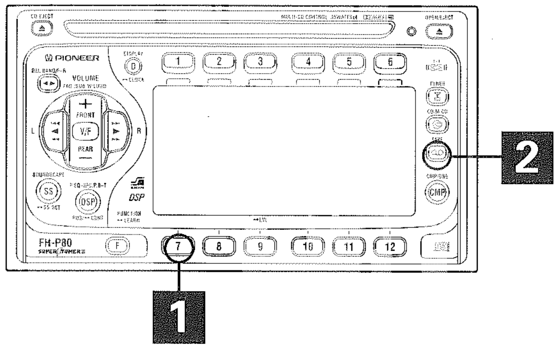
After this, pressing the [LRN] button on the remote controller will result in the same operation as pressing the learned button on the main unit.

MEMO

- Learn mode will be cancelled if no operation occurs for 8 seconds.

CONNECTING EXTERNAL EQUIPMENT

Listening to external equipment.



About connecting to external equipment

Connecting external equipment (such as an RCA-output video deck or DAT) to this unit allows sound from the external equipment to be output.

External equipment can be connected to the IP-BUS input terminal on the back panel of the unit using a CD-RB20 or CD-RB10 (option) RCA TO IP-BUS INTER CONNECTOR. For details, see the instruction manual that comes with your RCA TO IP-BUS INTER CONNECTOR.

1 Turning on the AUX (external input) setting

Turn the ignition switch from off to on or ACC while holding down the number [7] button.

Perform the same operation again to turn off the AUX setting.

2 Selecting a source

Press the ꝏ button on the main unit to select the AUX source.

Each time the button is pressed, the source will be switched as follows:

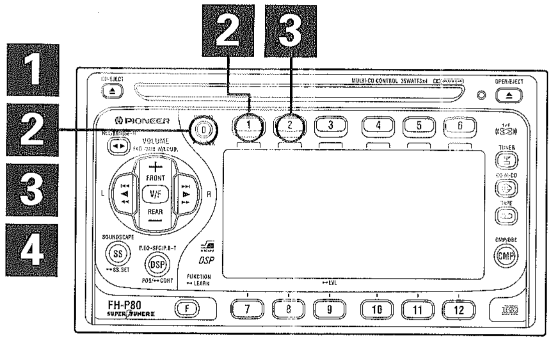
→ Tape deck ▶ AUX (external device) ▶ OFF

MEMO

- You cannot select AUX as the source using the remote controller.
- You can enter external device titles into the AUX, and have them stored. The stored titles will be displayed once the source is switched to the AUX. The title display is initially set to "NO TITLE". For title entering methods for the AUX, see "Entering a disc title" for the built-in CD player. (☞ P.63)

USING THE CLOCK

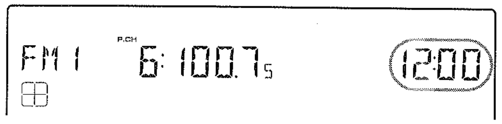
Displaying and adjusting the clock.



Displaying and adjusting the clock

1 Displaying the clock

Press the [D] button for more than 2 seconds.



Perform the same operation again to turn the clock display off.

2 Adjusting the hour

While holding down the [D] button for at least 2 seconds, press the number [1] button on the main unit.

The hour will advance by one each time the number [1] button is pressed. Holding the button down will cause the hour to advance continuously.

3 Adjusting the minute

While holding down the [D] button for at least 2 seconds, press the number [2] button on the main unit.

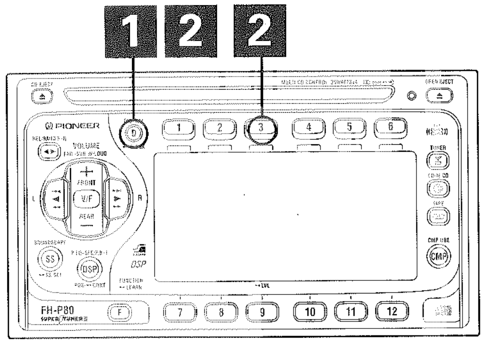
The minute will advance by one each time the number [2] button is pressed. Holding the button down will cause the minute to advance continuously.

4 Starting from 0 seconds

Release the [D] button.

The clock will start from 0 seconds of the hour and minute set.

USING THE CLOCK - CONTINUED



Aligning with the time announcement

1 Displaying the clock

Press the [D] button for more than 2 seconds.

2 Aligning with the time announcement

While holding down the [D] button for at least 2 seconds, press the number [3] button on the main unit.

The minute display will be set to "00" of the nearest hour.

Example: 10:00 – 10:29 → 10:00
10:30 – 10:59 → 11:00

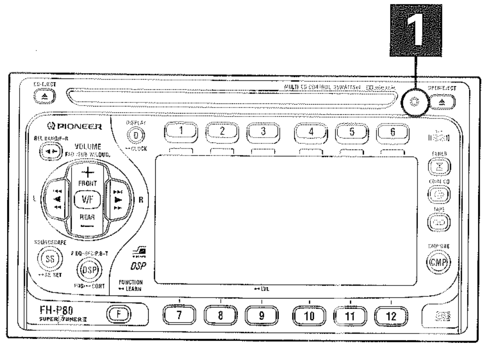
This operation allows you to eliminate any errors in clock time.

MEMO

- The clock display only functions while main unit power is on.
- Although the clock display will disappear when another button is pressed, it will return after about 25 seconds.

RESETTING THE MAIN UNIT

Resetting the main unit to initial status.


1
PIONEER
FH-P80

About main unit reset

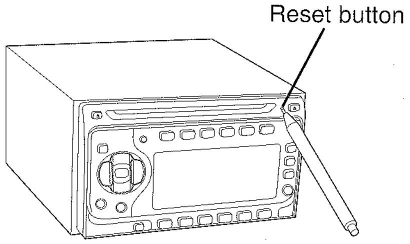
The microcontroller of the main unit is reset when the reset button is pressed.
Press the reset button in the following situations.

- After making connections
- When the main unit does not function properly
- When the display is not correct

When the reset button is pressed, all main unit memory (clock settings, radio presets, etc.) will be cleared. These settings must be made again.

1 Reset the main unit

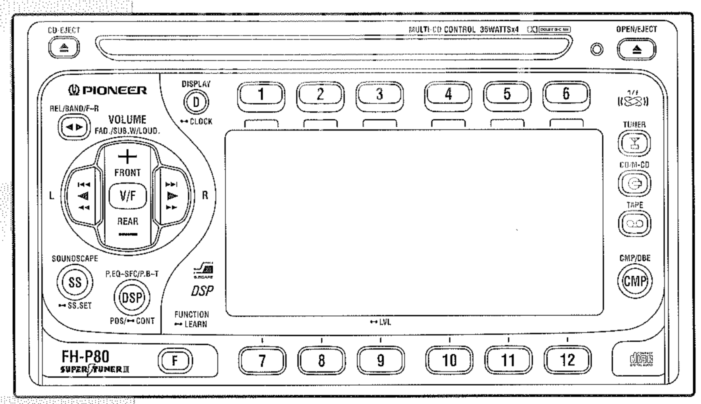
Press the reset button on the upper right of the main unit using the tip of a pen or other pointed object.

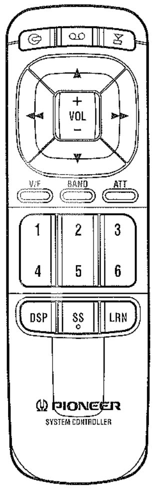

Reset button

CONNECTION and INSTALLATION

CONTENTS

⑭⑥ Before connection and installation
⑭⑦ Making connections
⑮② Installation
⑮⑥ After connection and installation


PIONEER
FH-P80
SUPER TUNER III


VOL
V/F
BAND
ATT
DSP
SS
LRN
PIONEER
SYSTEM CONTROLLER

BEFORE CONNECTION AND INSTALLATION

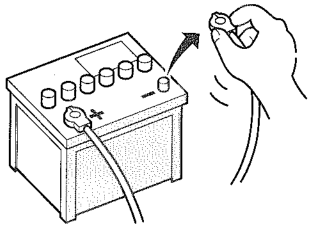
Before starting connection and installation

- This unit operates on a 12 V DC car battery (⊖ ground). Be sure to check battery voltage when installing in an RV, truck or bus.
- Consult your nearest car audio installation dealer if installation is going to require the drilling of holes or other modifications to the vehicle.

CAUTION

To prevent short circuit

- To prevent a short circuit and avoid damage to the product, be sure to disconnect the negative (–) terminal of the battery during connection and installation.

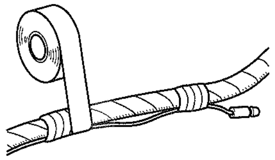


MAKING CONNECTIONS

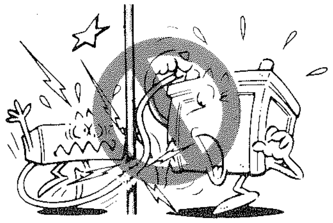
CAUTION

To prevent a short circuit

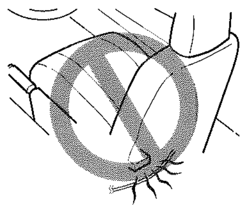
- Secure wiring with cable clamps or adhesive tape. To protect wires, wrap adhesive tape around them where they come in contact with metal parts.



- Do not drill a hole into the engine compartment for the orange lead (+ Battery) to the vehicle battery. Vibration may eventually wear through the insulation around the lead, resulting in a short circuit with the vehicle body.



- Do not route wires where they will get hot, for example where the heater will blow over them. If the insulation heats up, it may become damaged, resulting in a short circuit with the vehicle body.



- Make sure that wires will not catch in moving parts of the vehicle such as the gearshift, handbrake or seat sliding mechanism.

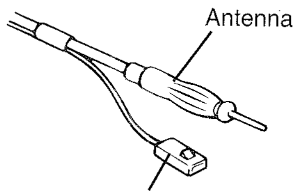
CAUTION

To avoid accidents

- Never shorten any leads midway through. If you do, the protection circuit may fail to work properly.
- Never feed power to other equipment by cutting the insulation of the power supply lead of the unit and tapping into the lead. The current capacity of the lead will be exceeded, causing overheating.

To prevent damage

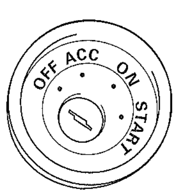
- Do not connect the red lead (ACC) to power source terminals to which power is continuously supplied regardless of whether the ignition switch is on or off. Doing so will cause the battery to go dead.
- The main unit amp uses a BPTL circuit. Do not connect speaker leads directly to ground or connect negative (–) leads of more than one speaker together.
- The speakers used with the main unit should be high-power models with maximum input of 35 W or more and having a rated impedance of 4 to 8 Ω. Use of speakers outside these specifications may result in damage to the speakers.
- Be sure to connect antenna booster power when installing in a vehicle with a windshield-embedded antenna. Failure to do so will make reception of AM broadcasts impossible. Connect to the main unit's blue/white lead (AUTO ANTENNA) when power cannot be obtained.


Antenna plug

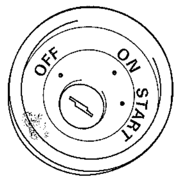
Antenna booster power (example)

- When the unit is installed in a vehicle whose ignition switch does not have the ACC (accessory) position, be sure to connect the red lead of the unit to the terminal controlled by the ignition switch ON/OFF position. Failure to do so, may cause the vehicle battery to go dead when you leave your vehicle for several hours.

ACC position



No ACC position

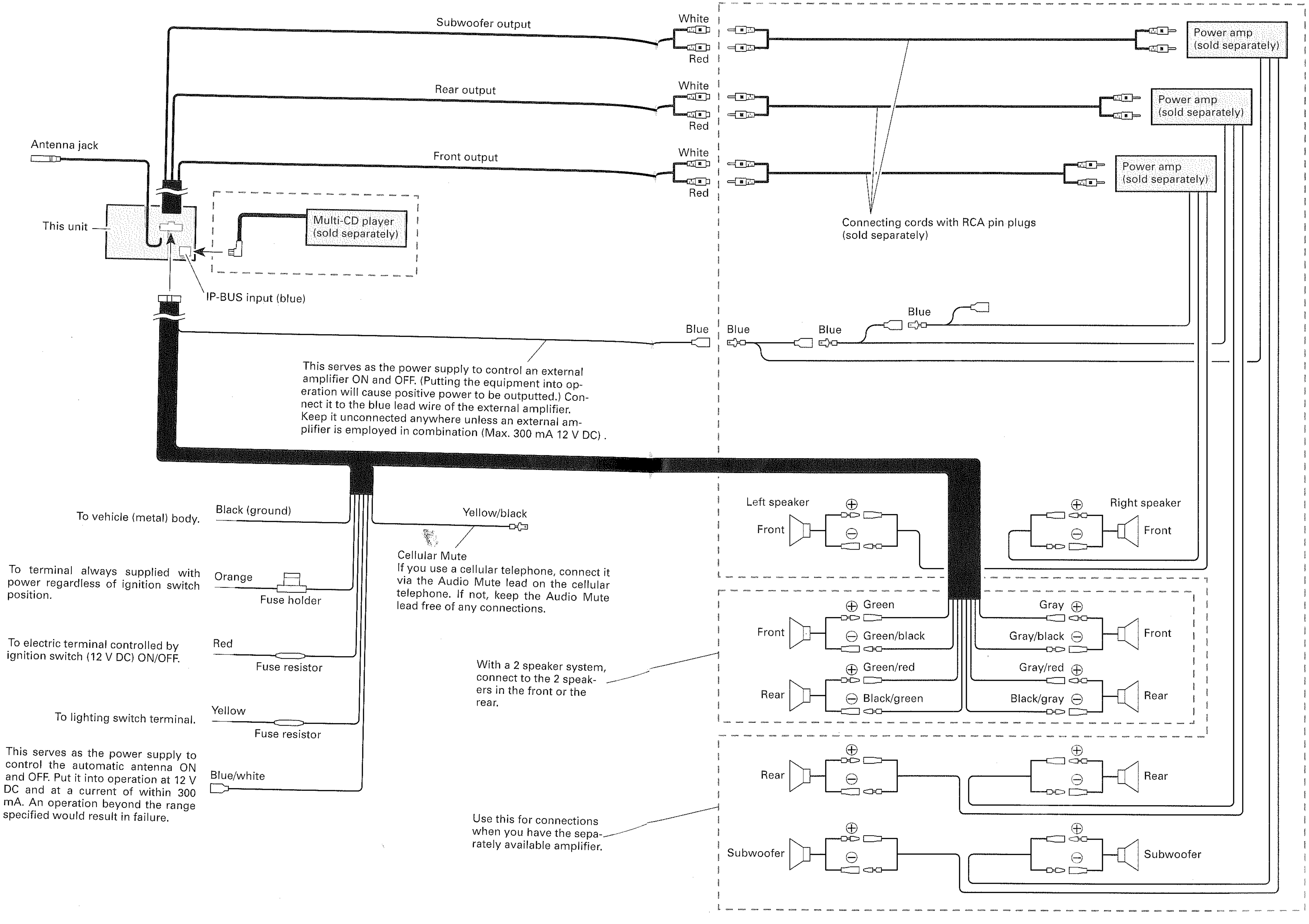


MEMO

- To prevent noise, install the antenna cord as far as possible from the IP-BUS cable, speaker leads and power source lead.
- For details on proper connection of optional components, refer to the manual for each separate component.
- The IP-BUS connector has been color coded blue for input and black for output to avoid any mistakes in connection. Be sure to connect same colors together (the connection part of the connector is similarly color coded).

MAKING CONNECTIONS - CONTINUED

Connection Diagram


Subwoofer output
Rear output
Front output
White
Red
White
Red
White
Red
Antenna jack
This unit
Multi-CD player (sold separately)
IP-BUS input (blue)
Power amp (sold separately)
Power amp (sold separately)
Power amp (sold separately)
Connecting cords with RCA pin plugs (sold separately)
Blue
Blue
Blue
Blue
Black (ground)
Orange
Fuse holder
Red
Fuse resistor
Yellow
Fuse resistor
Blue/white
Yellow/black
Cellular Mute
Left speaker
Right speaker
Front
Front
⊕
⊖
Green
Green/black
Green/red
Black/green
Gray
Gray/black
Gray/red
Black/gray
Front
Rear
Front
Rear
Rear
Rear
Subwoofer
Subwoofer

This serves as the power supply to control an external amplifier ON and OFF. (Putting the equipment into operation will cause positive power to be outputted.) Connect it to the blue lead wire of the external amplifier. Keep it unconnected anywhere unless an external amplifier is employed in combination (Max. 300 mA 12 V DC) .

To vehicle (metal) body.

To terminal always supplied with power regardless of ignition switch position.

To electric terminal controlled by ignition switch (12 V DC) ON/OFF.

To lighting switch terminal.

This serves as the power supply to control the automatic antenna ON and OFF. Put it into operation at 12 V DC and at a current of within 300 mA. An operation beyond the range specified would result in failure.

Cellular Mute
If you use a cellular telephone, connect it via the Audio Mute lead on the cellular telephone. If not, keep the Audio Mute lead free of any connections.

With a 2 speaker system, connect to the 2 speakers in the front or the rear.

Use this for connections when you have the separately available amplifier.

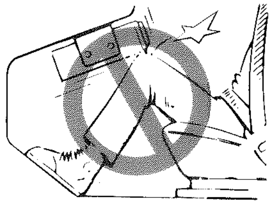
INSTALLATION

Before installing

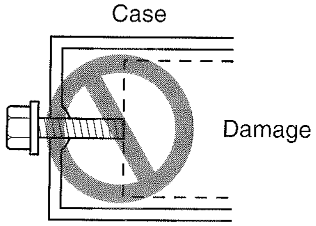
CAUTION

To avoid danger

- Never install the main unit or remote controller in a location that could be dangerous to the driver or other passengers in case of an emergency stop.
- Never install the main unit or remote controller in a location that interferes with the drivers feet or ability to drive the vehicle.

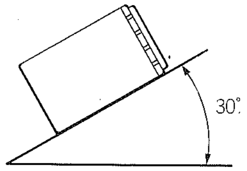


- Never install the remote controller on the dashboard in a way that blocks the driver's field of vision.
- To prevent short circuits, be careful to route wires so they do not get caught in the seat sliding mechanism.
- Be sure to use other supplied parts as directed and fasten them securely. Use of parts other than those specified may result in damage to or loosening of internal parts.



To ensure full performance from the unit

- Install the main unit within 30 degrees of horizontal.



- Do not install the remote controller in a location subject to direct sunlight or high temperature, as it may result in malfunction of the remote controller.

MEMO

- First make preliminary connections before final installation and fastening, and check that the main unit and system function normally. If they do not function normally, refer to the section "Troubleshooting" (☞ P.161).

Installing the main unit in Toyota or Nissan vehicles

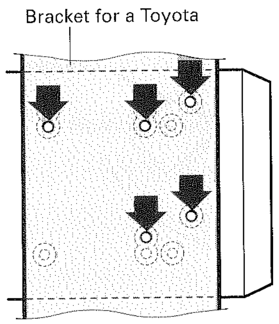
1 Remove the car radio or glove compartment

Once removed, there is a bracket for holding the radio or glove compartment. Use this bracket to install the main unit.

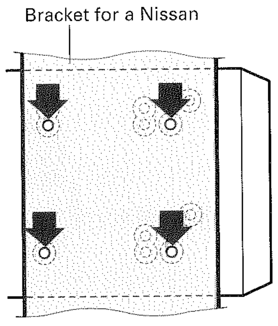
2 Check the location of screws

Lay the bracket on top of the main unit and check the location of holes.

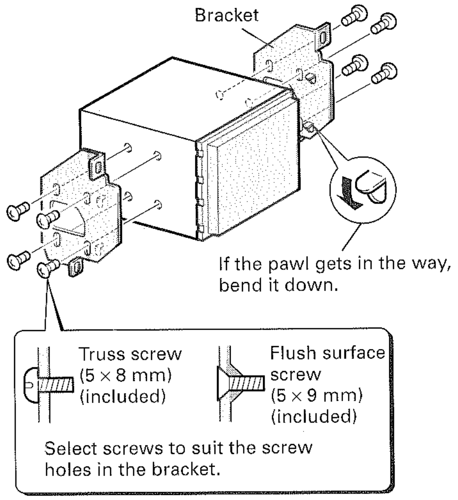
Toyota



Nissan



3 Attach the main unit on to the bracket using the supplied screws


Bracket
If the pawl gets in the way, bend it down.
Truss screw (5 × 8 mm) (included)
Flush surface screw (5 × 9 mm) (included)

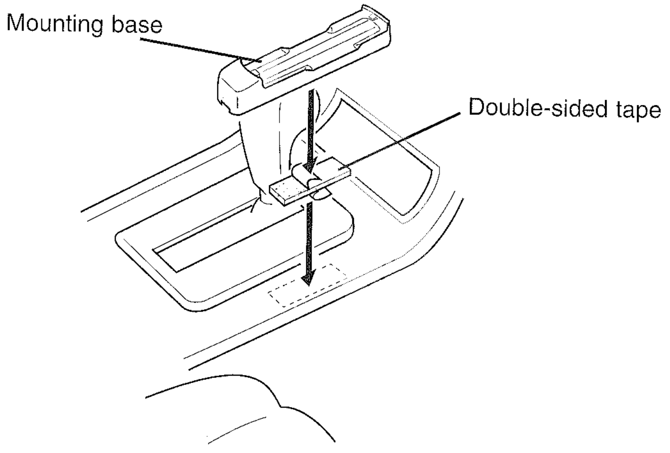
Select screws to suit the screw holes in the bracket.

Installing the remote controller

Install the mounting base using the supplied double-sided tape in a location that will not interfere with driving.

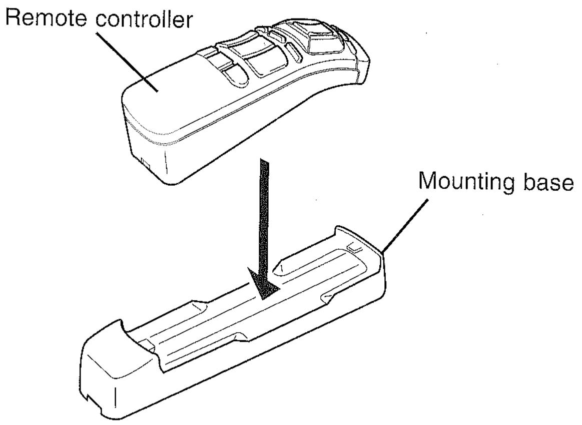
1 Clean off any dirt on the surface to which the double-sided tape is to be attached

2 Attach the mounting base using the double-sided tape



3 Installing the remote controller

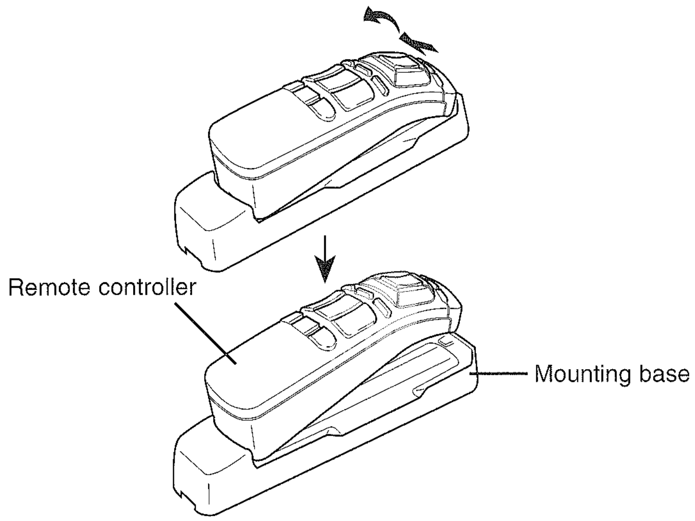
Push the remote controller into the mounting base until you hear it catch in place.



Removing the remote controller

1 Remove the remote controller

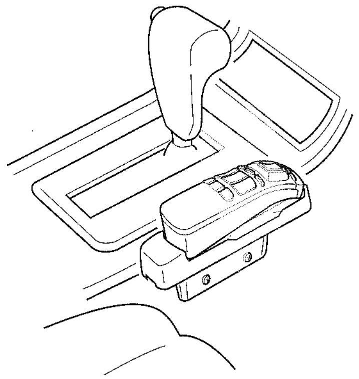
Lift the top part of the remote controller.



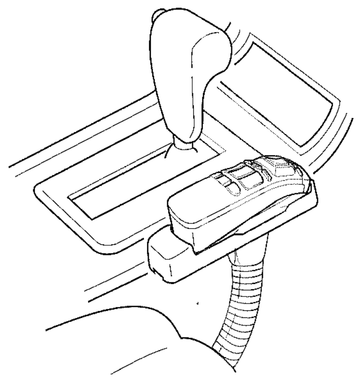
MEMO

- Using the mounting base in combination with the REMOTE CONTROLLER MOUNTING BASE "AD-R66" and/or SYSTEM COMMUNICATOR MOUNTING ARM "AD-R60" allows installation to be performed as follows. For details, consult your nearest dealer.

Installation when using the "AD-R66"



Installation when using the "AD-R66" and "AD-R60"



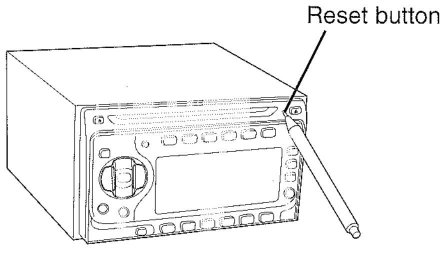
AFTER CONNECTION AND INSTALLATION

1 Connect the battery

First, double-check that all connections are correct and that the unit is installed correctly. Reattach all vehicle components that you have removed. Then connect the cable terminal to the negative (–) terminal of the battery.

2 Reset the main unit

Press the reset button on the upper right of the main unit using the tip of a pen or other pointed object.


Reset button

3 Turn the vehicle ignition switch to the ACC or ON position

4 Check operations

Check that the main unit and system function normally.
If they do not function normally, refer to the section "Troubleshooting" (☛ P.161).

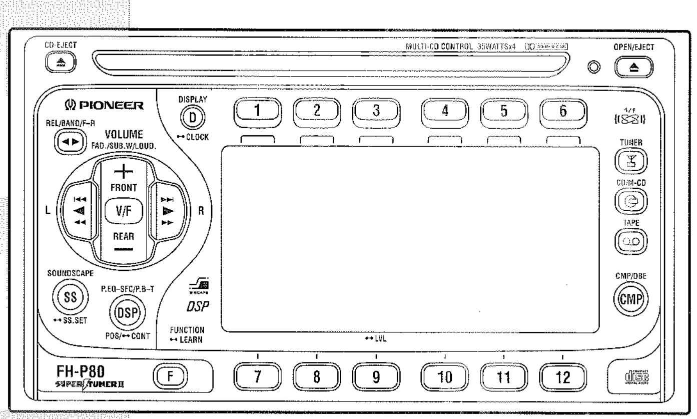
APPENDIX

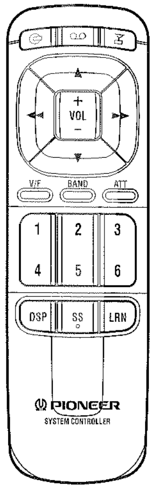
CONTENTS

158 Precautions

161 Troubleshooting

165 Specifications


PIONEER
VOLUME
FRONT
V/F
REAR
DSP
SS
FH-P80
SUPER TUNER II

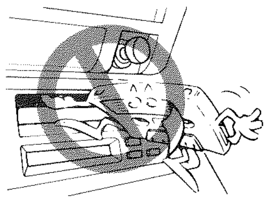

VOL
V/F
BAND
ATT
DSP
SS
LRN
PIONEER
SYSTEM CONTROLLER

PRECAUTIONS

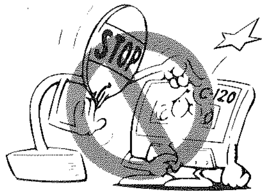
Precautions concerning cassette tapes

About the cassette tapes you use

- You may damage the eject mechanism of the main unit or be unable to eject a cassette tape if you use one whose label is peeling or whose casing is deformed. Avoid using such tapes or be sure to peel of the label before use.

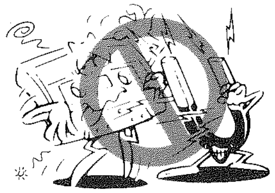


- Only use tapes up to C-90 (90-minute tapes). Using long tapes such as C-120 (120-minute tapes) can cause tape transport problems due to stretching caused by the extremely thin tape used.

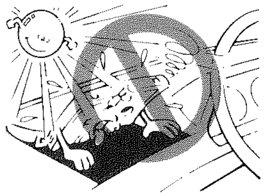


Handling cassette tapes

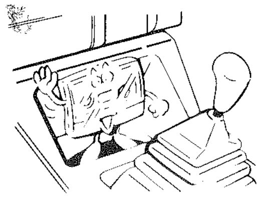
- Do not place magnets near cassette tapes.



- Do not store cassette tapes in locations subject to direct sunlight or high temperatures. The tape may become deformed, thus resulting in tape transport problems.



- Always store cassette tapes in their cassette case when not being used so as to prevent the tape from coming loose or dirty.



Cleaning the tape head

The tape head is critical for good sound quality. If this part becomes dirty, sound quality may worsen or audio may skip. Be sure to periodically clean the tape head about once or twice every month.

When using a cleaning tape

Be sure to thoroughly read the precaution card and instruction manual for any cleaning tape you may use. Furthermore, only use one side per cleaning, as running the cleaning tape many times will promote head friction.

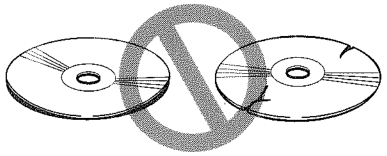
Precautions concerning CDs

About the CDs you use

- Be sure to use compact discs (optical digital audio disc) having the mark shown below.

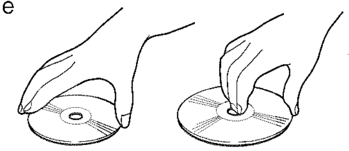
COMPACT
disc
DIGITAL AUDIO

- Do not use cracked, scratched or warped discs.

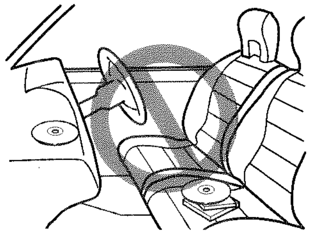


Handling CDs

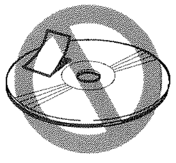
- Do not touch the signal side (rainbow colored side) of the disc. Pick up discs as illustrated below.



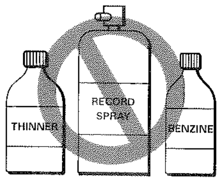
- Do not allow discs to become scratched.
- Do not store discs in locations subject to direct sunlight or high temperatures.



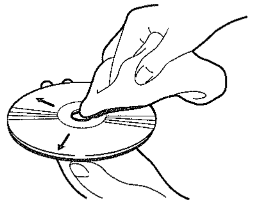
- Always store discs in their disc case so they do not become warped.
- Do not stick seals on discs.



- Do not allow discs to come in contact with caustic substances such as record spray, benzene or thinner.



- If a disc should become dirty, be sure to gently wipe it clean starting from the center toward the outer edge using a soft, clean cloth.



PRECAUTIONS - CONTINUED

About the disc playback environment

- Sometimes playback may skip during driving due to shock or vibration.
- If the heater is used in cold weather, condensation may occur on the disc and inside the CD player, thus interfering with normal disc playback. If this happens, wait about an hour and the condensation will naturally evaporate away. Gently wipe away any condensation on the disc using a soft, clean cloth.

TROUBLESHOOTING

What to do in case of trouble

If you think there is a problem use the following checklist before requesting repairs.

If you cannot solve the problem even after going through the checklist, press the reset button on the unit (☞ P.144).

In case of trouble
When the unit dose not operate properly,contact your dealer or the nearest authorized PIONEER Service Station.
Never remove the top case of the unit to attempt check or repairs.

■ Overall problems

Symptom	Cause	Remedy	See:
The sound does not come on or is faint.	The sound volume has been turned down.	Turn the sound volume up.	(☞ P.12)
	Incorrect fader adjustment.	Adjust correctly.	(☞ P.14)
	The attenuator of the remote control unit is on.	Switch the attenuator off.	(☞ P.13)
The power does not turn on, the unit does not operate when the buttons are pressed, or the display does not appear correctly.	The built-in microprocessor is operating incorrectly because of noise or other reasons.	Press the reset button.	(☞ P.144)

■ Tuner-related problems

Symptom	Cause	Remedy	See:
Loud noise is heard.	The tuner is not set to the frequency of a radio station.	Adjust to a correct frequency.	(☞ P.26)
No radio station can be found by seek tuning.	There is no radio station with a strong enough signal.	Select a radio station by manual tuning	(☞ P.26)

■ Tape deck-related problems

Symptom	Cause	Remedy	See:
When the cassette tape is inserted, the tape does not play (the power turns off).	The tape is broken or tangled.	Replace the tape.	—
During playback, the cassette spontaneously switches to the other side.	The tape is badly wound.	Fast forward or rewind the tape to wind it correctly.	(☞ P.44)
No sound.	A blank tape has been inserted.	Replace the tape.	—
The sound quality is poor.	The quality of the recording is poor.	Replace the tape. If the sound quality improves, the previous tape must have been at fault.	—
	Dolby NR is not working correctly.	Match the Dolby NR on/off setting to the one used when the tape was recorded.	(☞ P.46)
	The tape head is dirty.	Clean the tape head.	(☞ P.158)
The music search function does not work correctly.	There is no gap of 4 seconds or longer between tracks.	Use a tape having gaps of 4 seconds or longer between tracks.	(☞ P.45)

■ CD player-related problems

Symptom	Cause	Remedy	See:
Loud noise is hear. Playback stops.	The disc is badly scratched or warped.	Replace the disc. If the new disc plays satisfactorily, the previous disc must have been faulty.	—
	The disc is extremely dirty.	Wipe off all dirt from the disc.	(☞ P.159)
The display shows an error message.	A malfunction has occurred in the CD player.	Refer to the "CD player error display" table and check the meaning of the error.	(☞ P.163)

■ CD player error display

If a malfunction occurs during disc playback, an error No. will be displayed. Use the following table to check the meaning of this error.

Error No.	Cause	Remedy	See:
11,12,14,17,30	The disc is dirty.	Wipe away all dirt on the disc.	(☞ P.159)
	The disc is scratched or cracked.	Replace the disc.	—
11,14,17	The disc is inserted upside down.	Turn the disc right-side up.	—
14	An unrecorded one-time-recordable compact disc (CD-R) is being used.	When using CD-R discs, load one that has been recorded on.	—
80	An empty magazine is loaded in the multi-CD player.	Load discs into the magazine.	—
10,11,12,14,17,30,A0	Electrical or mechanical system failure.	Turn the car ignition switch off, then on again, or change to another source besides CD playback, and then return to CD playback.	—
HEAT	The CD player's internal temperature is high.	Wait until the CD player's internal temperature goes down.	—

MEMO

- Please refer to your multi-CD player manual when an error No. other than one described above appears.

TROUBLESHOOTING □ CONTINUED

■ Connection or installation-related problems

Symptom	Cause	Remedy
The power does not come on.	The unit is not connected to the car battery.	Connect the unit to the car battery.
The unit does not function (no sound).	The orange lead (+ Battery) is not connected properly.	Connect the orange lead to a power circuit to which power is always supplied from the battery regardless of the ON/OFF position of the ignition switch.*
	The red lead (ACC) is not connected properly.	Connect the red lead to a power circuit to which power is supplied from when the ignition switch is set to ACC.*
	The black lead (ground) is not connected properly.	Connect the black lead securely to the metal part of the vehicle body.
	A fuse is blown.	Correct the cause of the blown fuse, and replace the fuse with a similarly rated one.
	Connectors are not connected properly.	Connect them properly.
Front and rear sound is reversed.	Front and rear speaker cords are connected backwards.	Connect the speaker cords to the correct set of speakers.
No sound comes from the front and/or rear speakers.	The speaker cord has come loose.	Connect the speaker cord correctly.
Noise is present.	The black lead (ground) is not connected properly.	Connect the black lead securely to the metal part of the vehicle body.
AM cannot be received.	You forgot to obtain antenna booster power for a car having a windshield-embedded antenna.	Connect to the main unit's blue/white lead (AUTO ANTENNA).
The main unit does not illuminate even though the car's light switch is turned on.	The yellow lead (ILL) is not connected properly.	Connect the yellow lead to a circuit to which power is supplied when the car's light is turned on.*

*Connect orange, red and yellow leads to terminals after the car's fuse unit.

SPECIFICATIONS

■ Built-in CD player

System	Compact disc audio system	
Usable discs	Compact discs	
Signal format	Sampling frequency	44.1 kHz
	Number of quantization bits	16-bit linear
Frequency characteristics	5 – 20,000 Hz (±1 dB)	
Signal-to-noise ratio	94 dB (1 kHz) (IEC-A network)	
Dynamic range	90 dB (1 kHz)	
Number of channels	2 (stereo)	

■ Tape deck

Usable casstte tapes	Compact cassette tape (C-30 – C-90)
Tape speed	4.8 cm/sec.
Fast forward/rewind time	Approx. 100 sec. for C-60
Wow and flutter	0.09% (WRMS)
Frequency response	Metal: 30 – 19,000 Hz (±3 dB)
Stereo separation	45 dB
Signal-to-noise ratio	Metal: Dolby C NR IN: 73 dB (IEC-A network)
	Dolby B NR IN: 67 dB (IEC-A network)
	Dolby NR OUT: 61 dB (IEC-A network)

■ FM tuner

Frequency range	87.5 – 108 MHz
Effective sensitivity	11 dBf (0.8 μV/75 Ω, monaural, S/N: 30 dB)
50 dB quieting sensitivity	16 dBf (1.1 μV/75 Ω, monaural)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0.3% (at 65 dBf input, 1 kHz, stereo)
Frequency response	30 – 15,000 Hz (±3 dB)
Stereo separation	40 dB (at 65 dBf input, 1 kHz)

■ AM tuner

Frequency range	531 – 1,602 kHz (9 kHz)
	530 – 1,710 kHz (10 kHz)
Effective sensitivity	18 μV (at 25 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)
	50 dB (±10 kHz)

■ Equalizer amp common section

Maximum current consumption	8.6 A	
Maximum power output	35 W x 4	
Rated power output	15 W x 4 (1 kHz, 1%) Continuous power output is 15 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.	
Subwoofer	Cut-off frequency:	50 Hz, 80 Hz or 125 Hz
	Cut-off slope:	–18 dB/OCT
	Gain:	±12 dB
Tone controls (parametric)	Bass frequency:	80 Hz, 125 Hz, 200 Hz, 315 Hz
	Treble frequency:	12.5 kHz, 8 kHz, 5 kHz, 3.2 kHz
	Equalization range:	±12 dB
3-band parametric equalizer	Frequency:	20 kHz, 12.5 kHz, 8 kHz, 5 kHz, 3.2 kHz, 2 kHz, 1.3 kHz, 800 Hz, 500 Hz, 315 Hz, 200 Hz,125 Hz, 80 Hz, 50 Hz, 31.5 Hz, 20 Hz
	Equalization range:	±12 dB
Loudness contour	10 dB (100 Hz) 7 dB (10 kHz) (Volume: –30 dB)	
Load impedance	4 Ω (4 Ω – 8 Ω allowable)	
Pre-out output	Maximum output level:	500 mV
	Output impedance:	1 kΩ
Power source	14.4 V DC (10.8 – 15.1 V allowable)	
Grounding system	Negative type	
Dimensions	Installed:	178 (W) x 100 (H) x 155 (D) mm
	Nose:	170 (W) x 95 (H) x 22 (D) mm
Weight	2.7 kg (including cord unit)	

- Specifications and external appearance are subject to change without notice. Products purchased may differ in details from illustrations in this manual.